

Metals & Alloys in the UNIFIED NUMBERING SYSTEM

11th Edition

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Introduction to the Unified Numbering System

The Unified Numbering System for Metals and Alloys (UNS) provides a means of correlating many internationally used metal and alloy numbering systems currently administered by technical societies, trade associations, and those individual users and producers of metals and alloys. This system avoids the confusion caused by the use of more than one identification number for the same metal or alloy, and the opposite situation of having the same number assigned to two or more different metals or alloys.

It provides the uniformity necessary for efficient indexing, record keeping, data storage and retrieval, and cross-referencing.

A UNS designation is not, in itself, a specification, because it establishes no requirements for form, condition, property, or quality. It is a unified identifier of a metal or an alloy for which controlling limits have been established in specifications published elsewhere.

The UNS establishes 18 series of designations for metals and alloys. Each UNS designation consists of a single-letter prefix followed by five digits. In most cases the letter is suggestive of the family of metals identified: for example, A for aluminum, P for precious metals, S for stainless steels.

Although some of the digits in certain UNS designation groups have special assigned meanings, each series of UNS designations is independent of the others in regard to the significance of digits. This permits greater flexibility and avoids complicated and lengthy UNS designations.

Wherever feasible, and for the convenience of the user, identification “numbers” from existing systems are incorporated into the UNS designations. For example, carbon steel presently identified by the American Iron and Steel Institute as “AISI 1020” is covered by the UNS designation “G10200.”

The UNS designation assignments for certain metals and alloys are established by the relevant trade associations which in the past have administered their own numbering systems; for other metals and alloys, UNS designation assignments are administered by the SAE International. Each of these assigners has the responsibility for administering a specific UNS series of designations. Each considers requests for the assignment of new UNS designations, and informs the applicants of the action taken. UNS designation assigners report immediately to the office of the Unified Numbering System for Metals and Alloys the details of each new assignment for inclusion into the system.

For additional details on the UNS System, see the combined ASTM E527/SAE J1086, “Recommended Practice for Numbering Metals and Alloys,” included in the Appendix.

The listed cross-referenced specifications are representative only and are not necessarily a complete list of specifications applicable to a particular UNS designation.

Preface to the Eleventh Edition

The Unified Numbering System has been in use since 1974. The Eleventh Edition contains more than 5,200 designations in an international identification system for metals and alloys. Since the Tenth Edition was published in 2004, more than 125 new UNS designations have been added. More than 340 changes have been made in a major updating of representative specification cross references and specification indices. The Index of Common Trade Names has been expanded with more than 4,500 additions.

In total, approximately 5,000 changes have been incorporated into the Eleventh Edition of *Metals & Alloys in the Unified Numbering System*.

A UNS designation is not a specification because it establishes no requirements for delivery conditions such as mechanical property requirements, heat analysis tolerances, heat treatment, packaging, marking, inspection, etc. UNS designations are identifying numbers for metals and alloys for which controlling requirements are established and published by technical societies and specifying organizations such as Aluminum Association, American Society of Mechanical Engineers (ASME), ASTM International, SAE International, NACE International, American Welding Society (AWS), Copper Development Association (CDA), and ISO.

The Unified Numbering System operates through the volunteer efforts of a group of experienced, highly qualified metallurgists responsible for each of the various series of metals and alloys. Without their dedication and expertise, this book and the Unified Numbering System could not exist. We would like to extend our special thanks to Harold M. Cobb, Metallurgical Consultant, who was instrumental in the development of the Unified Numbering, for his ongoing dedication and commitment to the project.

James D. Redmond, Ph.D.
Chairman
UNS Advisory Board

UNS on the Web!

A Web version of the Unified Numbering System is available through both SAE and ASTM. It provides convenient online access, advanced search capabilities, and regular updates. It gives customers the ability to search by UNS number, description, common trade name, cross reference organization and specification, and chemical composition. For more information or to sign up for a one-year subscription, contact either SAE or ASTM.

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UNS NUMBERS ASSIGNED TO DATE

**With description of each material covered and
references to documents in which the same or
similar materials are described**

**Axxxxx Number Series
Aluminum and Aluminum Alloys**

ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A01001	Aluminum Foundry Alloy, Ingot	Al 99.00 min Cu 0.10 max Fe 0.6-0.8 Si 0.15 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Mn+Cr+Ti+V 0.025 max	AA 100.1 ASTM B179 (100.1)
A01301	Aluminum Foundry Alloy, Ingot	Al 99.30 min Cu 0.10 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 2.5 min, Mn+Cr+Ti+V 0.025 max	AA 130.1 ASTM B179 (130.1)
A01501	Aluminum Foundry Alloy, Ingot	Al 99.50 min Cu 0.05 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 2.0 min, Mn+Cr+Ti+V 0.025 max	AA 150.1 ASTM B179 (150.1)
A01601	Aluminum Foundry Alloy, Ingot	Al 99.60 min Fe 0.25 max Si 0.10 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 2.0 min, Mn+Cr+Ti+V 0.025 max	AA 160.1
A01701	Aluminum Foundry Alloy, Ingot	Al 99.70 min Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 1.5 min, Mn+Cr+Ti+V 0.025 max	AA 170.1 ASTM B179 (170.1)
A02010	Aluminum Foundry Alloy, Casting	Ag 0.40-1.0 Al rem Cu 4.0-5.2 Fe 0.15 max Mg 0.15-0.55 Mn 0.20-0.50 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 201.0 AMS 4233 ASTM B26 (201.0); B275; B618 (201.0); B917 (201.0) SAE J452 (382)
A02012	Aluminum Foundry Alloy, Ingot	Ag 0.40-1.0 Al rem Cu 4.0-5.2 Fe 0.10 max Mg 0.20-0.55 Mn 0.20-0.50 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 201.2 ASTM B179 (201.2); B275 SAE J452 (382)
* A02020	Aluminum Foundry Alloy, Casting	Ag 0.40-1.0 Al rem Cr 0.20-0.6 Cu 4.0-5.2 Fe 0.15 max Mg 0.15-0.55 Mn 0.20-0.8 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 202.0
* A02022	Aluminum Foundry Alloy, Ingot	Ag 0.40-1.0 Al rem Cr 0.20-0.6 Cu 4.0-5.2 Fe 0.10 max Mg 0.20-0.55 Mn 0.20-0.8 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 202.2
A02030	Aluminum Foundry Alloy, Casting	Al rem Co 0.20-0.30 Cu 4.5-5.5 Fe 0.50 max Mg 0.10 max Mn 0.20-0.30 Ni 1.3-1.7 Sb 0.20-0.30 Si 0.30 max Ti 0.15-0.25 Zn 0.10 max Zr 0.10-0.30 Other: each 0.05 max, total 0.20 max, plus Ti+Zr 0.50 max	AA 203.0 AMS 4225 ASTM B917 (203.0)
A02032	Aluminum Foundry Alloy, Ingot	Al rem Co 0.20-0.30 Cu 4.8-5.2 Fe 0.35 max Mg 0.10 max Mn 0.20-0.30 Ni 1.3-1.7 Sb 0.20-0.30 Si 0.20 max Ti 0.15-0.25 Zn 0.10 max Zr 0.10-0.30 Other: each 0.05 max, total 0.20 max, plus Ti+Zr 0.50 max	AA 203.2
A02040	Aluminum Foundry Alloy, Casting	Al rem Cu 4.2-5.0 Fe 0.35 max Mg 0.15-0.35 Mn 0.10 max Ni 0.05 max Si 0.20 max Sn 0.05 max Ti 0.15-0.30 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 204.0 ASTM B108 (204.0); B26 (204.0); B618 (204.0); B917 (204.0)
A02042	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.2-4.9 Fe 0.10-0.20 Mg 0.20-0.35 Mn 0.05 max Ni 0.03 max Si 0.15 max Sn 0.05 max Ti 0.15-0.25 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 204.2 ASTM B179 (204.2)
A02060	Aluminum Foundry Alloy, Casting	Al rem Cu 4.2-5.0 Fe 0.15 max Mg 0.15-0.35 Mn 0.20-0.50 Ni 0.05 max Si 0.10 max Sn 0.05 max Ti 0.15-0.30 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 206.0 AMS 4237; 4244 ASME SFA5.10 (R206.0) AWS A5.10 (R206.0) SAE J452

*Entries with an asterisk are no longer active and are retained for reference purposes only.

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A02062	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.2-5.0 Fe 0.10 max Mg 0.20-0.35 Mn 0.20-0.50 Ni 0.03 max Si 0.10 max Sn 0.05 max Ti 0.15-0.25 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 206.2
* A02080	Aluminum Foundry Alloy, Casting	Al rem Cu 3.5-4.5 Fe 1.2 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 2.5-3.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 208.0 ASTM B108 (208.0); B26 (208.0); B275; B618 (208.0) SAE J452; J452(380)
* A02081	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.5-4.5 Fe 0.9 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 2.5-3.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 208.1 ASTM B179 (208.1); B275
* A02082	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.5-4.5 Fe 0.8 max Mg 0.03 max Mn 0.30 max Si 2.5-3.5 Ti 0.20 max Zn 0.20 max Other: total 0.30 max	AA 208.2 ASTM B179 (208.2)
* A02130	Aluminum Foundry Alloy, Casting	Al rem Cu 6.0-8.0 Fe 1.2 max Mg 0.10 max Mn 0.6 max Ni 0.35 max Si 1.0-3.0 Ti 0.25 max Zn 2.5 max Other: total 0.50 max	AA 213.0 ASTM B108 (213.0)
* A02131	Aluminum Foundry Alloy, Ingot	Al rem Cu 6.0-8.0 Fe 0.9 max Mg 0.10 max Mn 0.6 max Ni 0.35 max Si 1.0-3.0 Ti 0.25 max Zn 2.5 max Other: total 0.50 max	AA 213.1
* A02220	Aluminum Foundry Alloy, Casting	Al rem Cu 9.2-10.7 Fe 1.5 max Mg 0.15-0.35 Mn 0.50 max Ni 0.50 max Si 2.0 max Ti 0.25 max Zn 0.8 max Other: total 0.35 max	AA 222.0 ASTM B108 (222.0); B26 (222.0); B275; B618 (222.0); B917 (222.0) SAE J452 (34)
* A02221	Aluminum Foundry Alloy, Ingot	Al rem Cu 9.2-10.7 Fe 1.2 max Mg 0.20-0.35 Mn 0.50 max Ni 0.50 max Si 2.0 max Ti 0.25 max Zn 0.8 max Other: total 0.35 max	AA 222.1 ASTM B179 (222.1) SAE J452 (34)
* A02240	Aluminum Foundry Alloy, Casting	Al rem Cu 4.5-5.5 Fe 0.10 max Mn 0.20-0.50 Si 0.06 max Ti 0.35 max V 0.05-0.15 Zr 0.10-0.25 Other: each 0.03 max, total 0.10 max	AA 224.0 AMS 4226
* A02242	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.5-5.5 Fe 0.04 max Mn 0.20-0.50 Si 0.02 max Ti 0.25 max V 0.05-0.15 Zr 0.10-0.25 Other: each 0.03 max, total 0.10 max	AA 224.2
* A02380	Aluminum Foundry Alloy, Casting	Al rem Cu 9.0-11.0 Fe 1.5 max Mg 0.15-0.35 Mn 0.6 max Ni 1.0 max Si 3.5-4.5 Ti 0.25 max Zn 1.5 max Other: total 0.50 max	AA 238.0
* A02381	Aluminum Foundry Alloy, Ingot	Al rem Cu 9.0-11.0 Fe 1.2 max Mg 0.20-0.35 Mn 0.6 max Ni 1.0 max Si 3.5-4.5 Ti 0.25 max Zn 1.5 max Other: total 0.50 max	AA 238.1 ASTM B275
* A02382	Aluminum Foundry Alloy, Ingot	Al rem Cu 9.5-10.5 Fe 1.2 max Mg 0.20-0.35 Mn 0.50 max Ni 0.50 max Si 3.5-4.5 Ti 0.20 max Zn 0.50 max Other: total 0.50 max	AA 238.2
A02400	Aluminum Foundry Alloy, Casting	Al rem Cu 7.0-9.0 Fe 0.50 max Mg 5.5-6.5 Mn 0.30-0.7 Ni 0.30-0.7 Si 0.50 max Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 240.0
A02401	Aluminum Foundry Alloy, Ingot	Al rem Cu 7.0-9.0 Fe 0.40 max Mg 5.6-6.5 Mn 0.30-0.7 Ni 0.30-0.7 Si 0.50 max Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 240.1

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A02420	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 3.5-4.5 Fe 1.0 max Mg 1.2-1.8 Mn 0.35 max Ni 1.7-2.3 Si 0.7 max Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA 242.0 ASTM B108 (242.0); B26 (242.0); B275; B618 (242.0); B917 (242.0) SAE J452 (39)
• A02421	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.25 max Cu 3.5-4.5 Fe 0.8 max Mg 1.3-1.8 Mn 0.35 max Ni 1.7-2.3 Si 0.7 max Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA 242.1 ASTM B179 (242.1); B275
A02422	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.5-4.5 Fe 0.6 max Mg 1.3-1.8 Mn 0.10 max Ni 1.7-2.3 Si 0.6 max Ti 0.20 max Zn 0.10 max Other : each 0.05 max, total 0.15 max	AA 242.2 ASTM B179 (242.2)
* A02430 •	Aluminum Foundry Alloy, Casting	Al rem Cr 0.20-0.40 Cu 3.5-4.5 Fe 0.40 max Mg 1.8-2.3 Mn 0.15-0.45 Ni 1.9-2.3 Si 0.35 max Ti 0.06-0.20 V 0.06-0.20 Zn 0.05 max Other : each 0.05 max, total 0.15 max	AA 243.0 AMS 4224
* A02431 •	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.20-0.40 Cu 3.5-4.5 Fe 0.30 max Mg 1.9-2.3 Mn 0.15-0.45 Ni 1.9-2.3 Si 0.35 max Ti 0.06-0.20 Zn 0.05 max Other : each 0.05 max, total 0.15 max	AA 243.1
* A02490	Aluminum Foundry Alloy, Casting	Al rem Cu 3.8-4.6 Fe 0.10 max Mg 0.25-0.50 Mn 0.25-0.50 Si 0.05 max Ti 0.02-0.35 Zn 2.5-3.5 Other : each 0.03 max, total 0.10 max	AA 249.0
* A02492	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.8-4.6 Fe 0.07 max Mg 0.30-0.50 Mn 0.25-0.50 Si 0.05 max Ti 0.02-0.12 Zn 2.5-3.5 Other : each 0.03 max, total 0.10 max	AA 249.2
• A02950	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 1.0 max Mg 0.03 max Mn 0.35 max Si 0.7-1.5 Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA 295.0 ASTM B26 (295.0); B275; B618 (295.0); B917 (295.0) SAE J452 (38)
• A02951	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.03 max Mn 0.35 max Si 0.7-1.5 Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA 295.1 ASTM B179 (295.1); B275
• A02952	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.03 max Mn 0.30 max Si 0.7-1.2 Ti 0.20 max Zn 0.30 max Other : each 0.05 max, total 0.15 max	AA 295.2 ASTM B179 (295.2)
A02960	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 1.2 max Mg 0.05 max Mn 0.35 max Ni 0.35 max Si 2.0-3.0 Ti 0.25 max Zn 0.50 max Other : total 0.35 max	AA 296.0 ASTM B108 (296.0); B917 (296.0) SAE J452
A02961	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.9 max Mg 0.05 max Mn 0.35 max Ni 0.35 max Si 2.0-3.0 Ti 0.25 max Zn 0.50 max Other : total 0.35 max	AA 296.1 ASTM B179 (296.1)
A02962	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.03 max Mn 0.30 max Si 2.0-3.0 Ti 0.20 max Zn 0.30 max Other : each 0.05 max, total 0.15 max	AA 296.2 ASTM B179 (296.2)
A03010	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-3.5 Fe 0.8-1.5 Mg 0.25-0.50 Mn 0.50-0.8 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other : each 0.03 max, total 0.10 max	AA 301.0

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A03011	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-3.5 Fe 0.8-1.2 Mg 0.30-0.50 Mn 0.50-0.8 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 301.1
A03020	Aluminum Foundry Alloy, Casting	Al rem Cu 2.8-3.2 Fe 0.25 max Mg 0.7-1.2 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 302.0
A03021	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.8-3.2 Fe 0.20 max Mg 0.8-1.2 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 302.1
A03030	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.8-1.5 Mg 0.45-0.7 Mn 0.50-0.8 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 303.0
A03031	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.8-1.2 Mg 0.50-0.7 Mn 0.50-0.8 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 303.1
* A03050	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 1.0-1.5 Fe 0.6 max Mg 0.10 max Mn 0.50 max Si 4.5-5.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max	AA 305.0
* A03052	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.14-0.25 Mn 0.05 max Si 4.5-5.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 305.2
A03080	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 1.0 max Mg 0.10 max Mn 0.50 max Si 5.0-6.0 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 308.0 ASTM B108 (308.0)
A03081	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.10 max Mn 0.50 max Si 5.0-6.0 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 308.1 ASTM B179 (308.1)
A03082	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.10 max Mn 0.30 max Si 5.0-6.0 Ti 0.20 max Zn 0.50 max Other: total 0.50 max	AA 308.2 ASTM B179 (308.2)
A03180	Aluminum Foundry Alloy, Die Casting	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.10-0.6 Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 318.0
A03181	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.8 max Mg 0.15-0.6 Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 0.9 max Other: total 0.50 max	AA 318.1
A03190	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 319.0 ASTM B108 (319.0); B26 (319.0); B275; B618 (319.0); B917 (319.0) SAE J452 (326)
A03191	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.8 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 319.1 ASTM B179 (319.1); B275
A03192	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.6 max Mg 0.10 max Mn 0.10 max Ni 0.10 max Si 5.5-6.5 Ti 0.20 max Zn 0.10 max Other: total 0.20 max	AA 319.2 ASTM B179 (319.2)
A03200	Aluminum Foundry Alloy, Casting	Al rem Cu 2.0-4.0 Fe 1.2 max Mg 0.05-0.6 Mn 0.8 max Ni 0.35 max Si 5.0-8.0 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA 320.0
A03201	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-4.0 Fe 0.9 max Mg 0.10-0.6 Mn 0.8 max Ni 0.35 max Si 5.0-8.0 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA 320.1

*Entries with an asterisk are no longer active and are retained for reference purposes only.

The chemical compositions listed are for identification purposes and should not be used in lieu of the cross-referenced specifications.

ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
* A03240	Aluminum Foundry Alloy, Casting	Al rem Cu 0.40-0.6 Fe 1.2 max Mg 0.40-0.7 Mn 0.50 max Ni 0.30 max Si 7.0-8.0 Ti 0.20 max Zn 1.0 max Other: each 0.15 max, total 0.20 max	AA 324.0
* A03241	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.40-0.6 Fe 0.9 max Mg 0.45-0.7 Mn 0.50 max Ni 0.30 max Si 7.0-8.0 Ti 0.20 max Zn 1.0 max Other: each 0.15 max, total 0.20 max	AA 324.1
* A03242	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.40-0.6 Fe 0.6 max Mg 0.45-0.7 Mn 0.10 max Ni 0.10 max Si 7.0-8.0 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 324.2
A03280	Aluminum Foundry Alloy, Casting	Al rem Cr 0.35 max Cu 1.0-2.0 Fe 1.0 max Mg 0.20-0.6 Mn 0.20-0.6 Ni 0.25 max Si 7.5-8.5 Ti 0.25 max Zn 1.5 max Other: total 0.50 max	AA 328.0 ASTM B26 (328.0); B275; B618 (328.0); B917 (328.0) SAE J452 (327)
A03281	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.35 max Cu 1.0-2.0 Fe 0.8 max Mg 0.25-0.6 Mn 0.20-0.6 Ni 0.25 max Si 7.5-8.5 Ti 0.25 max Zn 1.5 max Other: total 0.50 max	AA 328.1 ASTM B179 (328.1); B275 SAE J452 (327)
A03320	Aluminum Foundry Alloy, Casting	Al rem Cu 2.0-4.0 Fe 1.2 max Mg 0.50-1.5 Mn 0.50 max Ni 0.50 max Si 8.5-10.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 332.0 ASTM B108 (332.0); B275 SAE J452 (332)
A03321	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-4.0 Fe 0.9 max Mg 0.6-1.5 Mn 0.50 max Ni 0.50 max Si 8.5-10.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 332.1 ASTM B179 (332.1); B275
A03322	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-4.0 Fe 0.6 max Mg 0.9-1.3 Mn 0.10 max Ni 0.10 max Si 8.5-10.0 Ti 0.20 max Zn 0.10 max Other: total 0.30 max	AA 332.2 ASTM B179 (332.2)
A03330	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.05-0.50 Mn 0.50 max Ni 0.50 max Si 8.0-10.0 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 333.0 ASTM B108 (333.0); B275 SAE J452 (331)
A03331	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.8 max Mg 0.10-0.50 Mn 0.50 max Ni 0.50 max Si 8.0-10.0 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 333.1 ASTM B179 (333.1); B275
A03360	Aluminum Foundry Alloy, Casting	Al rem Cu 0.50-1.5 Fe 1.2 max Mg 0.7-1.3 Mn 0.35 max Ni 2.0-3.0 Si 11.0-13.0 Ti 0.25 max Zn 0.35 max Other: each 0.05 max	AA 336.0 ASTM B108 (336.0); B275 SAE J452 (321)
A03361	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.50-1.5 Fe 0.9 max Mg 0.8-1.3 Mn 0.35 max Ni 2.0-3.0 Si 11.0-13.0 Ti 0.25 max Zn 0.35 max Other: each 0.05 max	AA 336.1 ASTM B179 (336.1); B275
A03362	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.50-1.5 Fe 0.9 max Mg 0.9-1.3 Mn 0.10 max N 2.0-3.0 Si 11.0-13.0 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 336.2 ASTM B179 (336.2)
* A03370	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-3.5 Fe 0.8-1.2 Mg 0.30-0.50 Mn 0.50-0.8 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA 337.0

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
* A03371	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-3.5 Fe 0.8-0.9 Mg 0.35-0.50 Mn 0.50-0.8 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA 337.1
* A03380	Aluminum Foundry Alloy, Casting	Al rem Cu 2.8-3.2 Fe 0.20 max Mg 0.8-1.2 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Other: each 0.03 max, total 0.10 max	AA 338.0
* A03381	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.8-3.2 Fe 0.17 max Mg 0.9-1.2 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Other: each 0.03 max, total 0.10 max	AA 338.1
A03390	Aluminum Foundry Alloy, Casting	Al rem Cu 1.5-3.0 Fe 1.2 max Mg 0.50-1.5 Mn 0.50 max Ni 0.50-1.5 Si 11.0-13.0 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 339.0
A03391	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.5-3.0 Fe 0.9 max Mg 0.6-1.5 Mn 0.50 max Ni 0.50-1.5 Si 11.0-13.0 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 339.1 SAE J452 (334)
* A03430	Aluminum Foundry Alloy, Casting	Al rem Cr 0.10 max Cu 0.50-0.9 Fe 1.2 max Mg 0.10 max Mn 0.50 max Si 6.7-7.7 Sn 0.05 max Zn 1.2-2.0 Other: each 0.10 max, total 0.35 max	AA 343.0
* A03431	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.10 max Cu 0.50-0.9 Fe 0.50-0.9 Mg 0.10 max Mn 0.50 max Si 6.7-7.7 Sn 0.05 max Zn 1.2-1.9 Other: each 0.10 max, total 0.35 max	AA 343.1
A03540	Aluminum Foundry Alloy, Casting	Al rem Cu 1.6-2.0 Fe 0.20 max Mg 0.40-0.6 Mn 0.10 max Si 8.6-9.4 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 354.0 AMS AMS-A-21180 (354.0) ASTM B108 (354.0); B275; B686 (354.0) SAE J452
A03541	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.6-2.0 Fe 0.15 max Mg 0.45-0.6 Mn 0.10 max Si 8.6-9.4 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 354.1 ASTM B179 (354.1); B275
A03550	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 1.0-1.5 Fe 0.6 max Mg 0.40-0.6 Mn 0.50 max Si 4.5-5.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max Note: If Fe exceeds 0.45, Mn shall not be less than 0.5×Fe	AA 355.0 AMS 4210; 4212; 4214; 4245; 4280; 4281 ASME SFA5.10 (R-C355.0) ASTM B108 (355.0); B26 (355.0); B275; B618 (355.0); B917 (355.0) AWS A5.10 (R-C355.0) SAE J452 (322)
A03551	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.25 max Cu 1.0-1.5 Fe 0.50 max Mg 0.45-0.6 Mn 0.50 max Si 4.5-5.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max Note: If Fe exceeds 0.45, Mn shall not be less than 0.5×Fe	AA 355.1 ASTM B179 (355.1); B275
A03552	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.14-0.25 Mg 0.50-0.6 Mn 0.05 max Si 4.5-5.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 355.2 ASTM B179 (355.2); B275
A03560	Aluminum Foundry Alloy, Casting	Al rem Cu 0.25 max Fe 0.6 max Mg 0.20-0.45 Mn 0.35 max Si 6.5-7.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max Note: If Fe exceeds 0.45, Mn shall not be less than 0.5 x Fe	AA 356.0 AMS 4217; 4260; 4261; 4284; 4285; 4286 ASTM B108 (356.0); B26 (356.0); B275; B618 (356.0); B917 (356.0); F626 (356.0) SAE J452 (323)

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A03561	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.25 max Fe 0.50 max Mg 0.25-0.45 Mn 0.35 max Si 6.5-7.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max Note: If Fe exceeds 0.45, Mn shall not be less than 0.5 x Fe	AA 356.1 ASTM B179 (356.1); B275
A03562	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.13-0.25 Mg 0.30-0.45 Mn 0.05 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 356.2 ASTM B179 (356.2); B275
A03570	Aluminum Foundry Alloy, Casting	Al rem Cu 0.05 max Fe 0.15 max Mg 0.45-0.6 Mn 0.03 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 357.0 AMS 4246 ASME SFA5.10 (RA-357.0) ASTM B108 (357.0); B275; B917 (357.0) AWS A5.10 (RA-357.0) SAE J452
A03571	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.05 max Fe 0.12 max Mg 0.45-0.6 Mn 0.03 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 357.1 ASTM B179 (357.1)
A03580	Aluminum Foundry Alloy, Casting	Al rem Be 0.10-0.30 Cr 0.20 max Cu 0.20 max Fe 0.30 max Mg 0.40-0.6 Mn 0.20 max Si 7.6-8.6 Ti 0.10-0.20 Zn 0.20 max Other: each 0.05 max, total 0.15 max	AA 358.0
A03582	Aluminum Foundry Alloy, Ingot	Al rem Be 0.15-0.30 Cr 0.05 max Cu 0.10 max Fe 0.20 max Mg 0.45-0.6 Mn 0.10 max Si 7.6-8.6 Ti 0.12-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 358.2
A03590	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.20 max Mg 0.50-0.7 Mn 0.10 max Si 8.5-9.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 359.0 AMS AMS-A-21180 (359.0) ASTM B108 (359.0); B275 SAE J452
A03592	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.12 max Mg 0.55-0.7 Mn 0.10 max Si 8.5-9.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 359.2 ASTM B179 (359.2); B275
A03600	Aluminum Foundry Alloy, Casting	Al rem Cu 0.6 max Fe 2.0 max Mg 0.40-0.6 Mn 0.35 max Ni 0.50 max Si 9.0-10.0 Sn 0.15 max Zn 0.50 max Other: total 0.25 max	AA 360.0 AMS 4290 ASTM B275; B85 (360.0) SAE J452
A03602	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.7-1.1 Mg 0.45-0.6 Mn 0.10 max Ni 0.10 max Si 9.0-10.0 Sn 0.10 max Zn 0.10 max Other: total 0.20 max	AA 360.2 ASTM B179 (360.2); B275
A03610	Aluminum Foundry Alloy, Casting	Al rem Cr 0.20-0.30 Cu 0.50 max Fe 1.1 max Mg 0.40-0.6 Mn 0.25 max Ni 0.20-0.30 Si 9.5-10.5 Sn 0.10 max Ti 0.20 max Zn 0.50 max Other: each 0.05 max, total 0.15 max	AA 361.0
A03611	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.20-0.30 Cu 0.50 max Fe 0.8 max Mg 0.45-0.6 Mn 0.25 max Ni 0.20-0.30 Si 9.5-10.5 Sn 0.10 max Ti 0.20 max Zn 0.40 max Other: each 0.05 max, total 0.15 max	AA 361.1
* A03620 •	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.8-1.2 Mg 0.50-0.7 Mn 0.50-0.8 Si 9.5-10.5 Ti 0.20 max Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA 362.0

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED
NUMBER

DESCRIPTION

CHEMICAL COMPOSITION

CROSS REFERENCE
SPECIFICATIONS

* A03621	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.8-0.9 Mg 0.6-0.7 Mn 0.50-0.8 Si 9.5-10.5 Ti 0.20 max Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA 362.1
A03630	Aluminum Foundry Alloy, Casting	Al rem Cu 2.5-3.5 Fe 1.1 max Mg 0.15-0.40 Ni 0.25 max Pb 0.25 max Si 4.5-6.0 Sn 0.25 max Ti 0.20 max Zn 3.0-4.5 Other: total 0.30 max, plus Mn+Cr 0.8 max	AA 363.0
A03631	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.5-3.5 Fe 0.8 max Mg 0.20-0.40 Ni 0.25 max Pb 0.25 max Si 4.5-6.0 Sn 0.25 max Ti 0.20 max Zn 3.0-4.5 Other: total 0.30 max, plus Mn+Cr 0.8 max	AA 363.1
A03640	Aluminum Foundry Alloy, Casting	Al rem Be 0.02-0.04 Cr 0.25-0.50 Cu 0.20 max Fe 1.5 max Mg 0.20-0.40 Mn 0.10 max Ni 0.15 max Si 7.5-9.5 Sn 0.15 max Zn 0.15 max Other: each 0.05 max, total 0.15 max	AA 364.0
A03642	Aluminum Foundry Alloy, Ingot	Al rem Be 0.02-0.04 Cr 0.25-0.50 Cu 0.20 max Fe 0.7-1.1 Mg 0.25-0.40 Mn 0.10 max Ni 0.15 max Si 7.5-9.5 Sn 0.15 max Zn 0.15 max Other: each 0.05 max, total 0.15 max	AA 364.2
A03650	Aluminum Foundry Alloy, Casting	Al rem Cu 0.03 max Fe 0.15 max Mg 0.10-0.50 Mn 0.50-0.8 P 0.001 max Si 9.5-11.5 Sr 0.010-0.020 Ti 0.04-0.15 Zn 0.07 max Other: each 0.03 max, total 0.10 max	AA 365.0
A03651	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.03 max Fe 0.12 max Mg 0.15-0.50 Mn 0.50-0.8 P 0.001 max Si 9.5-11.5 Sr 0.010-0.020 Ti 0.04-0.15 Zn 0.07 max Other: each 0.03 max, total 0.10 max	AA 365.1
A03660	Aluminum Foundry Alloy, Semi-solid Formed Products	Al rem Cu 0.05 max Fe 0.15 max Mg 0.5-1.2 Mn 0.03 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 366.0
A03661	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.05 max Fe 0.12 max Mg 0.6-1.2 Mn 0.03 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 366.1
A03670	Aluminum Foundry Alloy, Casting	Al rem Cu 0.25 max Fe 0.25 max Mg 0.30-0.50 Mn 0.25-0.35 P 0.001 max Si 8.5-9.5 Sr 0.05-0.07 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 367.0
A03671	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.25 max Fe 0.20 max Mn 0.25-0.35 P 0.001 max Si 8.5-9.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 367.1
A03680	Aluminum Foundry Alloy, Casting	Al rem Cu 0.25 max Fe 0.25 max Mg 0.10-0.30 Mn 0.25-0.35 P 0.001 max Si 8.5-9.5 Sr 0.05-0.07 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 368.0
A03681	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.25 max Fe 0.20 max Mg 0.15-0.30 Mn 0.25-0.35 P 0.001 max Si 8.5-9.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 368.1
A03690	Aluminum Foundry Alloy, Casting	Al rem Cr 0.30-0.40 Cu 0.50 max Fe 1.3 max Mg 0.25-0.45 Mn 0.35 max Ni 0.05 max Si 11.0-12.0 Sn 0.10 max Zn 1.0 max Other: each 0.05 max, total 0.15 max	AA 369.0

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A03691	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.30-0.40 Cu 0.50 max Fe 1.0 max Mg 0.30-0.45 Mn 0.35 max Ni 0.05 max Si 11.0-12.0 Sn 0.10 max Zn 0.9 max Other: each 0.05 max, total 0.15 max	AA 369.1
A03800	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 2.0 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 3.0 max Other: total 0.50 max	AA 380.0 ASTM B275; B85 (380.0) SAE J452 (308)
A03802	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.7-1.1 Mg 0.10 max Mn 0.10 max Ni 0.10 max Si 7.5-9.5 Sn 0.10 max Zn 0.10 max Other: total 0.20 max	AA 380.2 ASTM B179 (380.2); B275
A03810	Aluminum Foundry Alloy, Casting	Al rem Cr 0.15 max Cu 3.0-4.0 Fe 1.3 max Mg 0.13 max Mn 0.50 max Pb 0.15 max Sb 0.15 max Si 9.0-10.0 Sn 0.15 max Ti 0.20 max Zn 3.0 max Other: total 0.50 max	AA 381.0
A03812	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.15 max Cu 3.0-4.0 Fe 0.7-1.0 Mg 0.13 max Mn 0.50 max Ni 0.50 max Pb 0.15 max Sb 0.15 max Si 9.0-10.0 Sn 0.15 max Ti 0.20 max Zn 2.9 max Other: total 0.50 max	AA 381.2
A03830	Aluminum Foundry Alloy, Casting	Al rem Cu 2.0-3.0 Fe 1.3 max Mg 0.10 max Mn 0.50 max Ni 0.30 max Si 9.5-11.5 Sn 0.15 max Zn 3.0 max Other: total 0.50 max	AA 383.0 ASTM B275; B85 (383.0) SAE J452 (383)
A03831	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-3.0 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.30 max Si 9.5-11.5 Sn 0.15 max Zn 2.9 max Other: total 0.50 max	AA 383.1 ASTM B179 (383.1); B275
A03832	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-3.0 Fe 0.6-1.0 Mg 0.10 max Mn 0.10 max Ni 0.10 max Si 9.5-11.5 Sn 0.10 max Zn 0.10 max Other: total 0.20 max	AA 383.2 ASTM B179 (383.2)
A03840	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.5 Fe 1.3 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 3.0 max Other: total 0.50 max	AA 384.0 ASTM B275; B85 (384.0) SAE J452 (303)
A03841	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.5 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 2.9 max Other: total 0.50 max	AA 384.1 ASTM B179 (384.1); B275
A03842	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.5 Fe 0.6-1.0 Mg 0.10 max Mn 0.10 max Ni 0.10 max Si 10.5-12.0 Sn 0.10 max Zn 0.10 max Other: total 0.20 max	AA 384.2 ASTM B179 (384.2)
* A03850	Aluminum Foundry Alloy, Casting	Al rem Cu 2.0-4.0 Fe 2.0 max Mg 0.30 max Mn 0.50 max Ni 0.50 max Si 11.0-13.0 Sn 0.30 max Zn 3.0 max Other: total 0.50 max	AA 385.0
* A03851	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-4.0 Fe 1.1 max Mg 0.30 max Mn 0.50 max Ni 0.50 max Si 11.0-13.0 Sn 0.30 max Zn 2.9 max Other: total 0.50 max	AA 385.1
A03900	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 1.3 max Mg 0.45-0.65 Mn 0.10 max Si 16.0-18.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA 390.0 ASTM B85 (390.0) SAE J452

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A03902	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.6-1.0 Mg 0.50-0.65 Mn 0.10 max Si 16.0-18.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA 390.2 ASTM B179 (390.2)
A03910	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 1.2 max Mg 0.40-0.7 Mn 0.30 max Si 18.0-20.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA 391.0
A03911	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.9 max Mg 0.45-0.7 Mn 0.30 max Si 18.0-20.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA 391.1
A03920	Aluminum Foundry Alloy, Casting	Al rem Cu 0.40-0.8 Fe 1.5 max Mg 0.8-1.2 Mn 0.20-0.6 Ni 0.50 max Si 18.0-20.0 Sn 0.30 max Ti 0.20 max Zn 0.50 max Other: each 0.15 max, total 0.50 max	AA 392.0 ASTM B85 (392.0)
A03921	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.40-0.8 Fe 1.1 max Mg 0.9-1.2 Mn 0.20-0.6 Ni 0.50 max Si 18.0-20.0 Sn 0.30 max Ti 0.20 max Zn 0.40 max Other: each 0.15 max, total 0.50 max	AA 392.1 ASTM B179 (392.1)
A03930	Aluminum Foundry Alloy, Casting	Al rem Cu 0.7-1.1 Fe 1.3 max Mg 0.7-1.3 Mn 0.10 max Ni 2.0-2.5 Si 21.0-23.0 Ti 0.10-0.20 V 0.08-0.15 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 393.0
A03931	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.7-1.1 Fe 1.0 max Mg 0.8-1.3 Mn 0.10 max Ni 2.0-2.5 Si 21.0-23.0 Ti 0.10-0.20 V 0.08-0.15 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 393.1
A03932	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.7-1.1 Fe 0.8 max Mg 0.8-1.3 Mn 0.10 max Ni 2.0-2.5 Si 21.0-23.0 Ti 0.10-0.20 V 0.08-0.15 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 393.2
* A04082	Aluminum Foundry Alloy, Ingot (Steel Coating Alloy)	Al rem Cu 0.10 max Fe 0.6-1.3 Mn 0.10 max Si 8.5-9.5 Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA 408.2
A04092	Aluminum Foundry Alloy, Ingot (Steel Coating Alloy)	Al rem Cu 0.10 max Fe 0.6-1.3 Mn 0.10 max Si 9.0-10.0 Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA 409.2
* A04112	Aluminum Foundry Alloy, Ingot (Steel Coating Alloy)	Al rem Cu 0.20 max Fe 0.6-1.3 Mn 0.10 max Si 10.0-12.0 Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA 411.2
A04130	Aluminum Foundry Alloy, Casting	Al rem Cu 1.0 max Fe 2.0 max Mg 0.10 max Mn 0.35 max Ni 0.50 max Si 11.0-13.0 Sn 0.15 max Zn 0.50 max Other: total 0.25 max	AA 413.0 ASTM B275; B85 (413.0) SAE J452(413)
A04132	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.7-1.1 Mg 0.07 max Mn 0.10 max Ni 0.10 max Si 11.0-13.0 Sn 0.10 max Zn 0.10 max Other: total 0.20 max	AA 413.2 ASTM B179 (413.2); B275
A04352	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.05 nom Fe 0.40 nom Mg 0.05 nom Mn 0.05 nom Si 3.3-3.9 Zn 0.10 nom Other: each 0.05 max, total 0.20 max	AA 435.2
A04430	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 0.6 max Fe 0.8 max Mg 0.05 max Mn 0.50 max Si 4.5-6.0 Ti 0.25 max Zn 0.50 max Other: total 0.35 max	AA 443.0 ASTM B108 (443.0); B26 (443.0); B275; B618 (443.0) SAE J452 (35)

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ALUMINUM AND ALUMINUM ALLOYS

<u>UNIFIED NUMBER</u>	<u>DESCRIPTION</u>	<u>CHEMICAL COMPOSITION</u>	<u>CROSS REFERENCE SPECIFICATIONS</u>
A04431	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.25 max Cu 0.6 max Fe 0.6 max Mg 0.05 max Mn 0.50 max Si 4.5-6.0 Ti 0.25 max Zn 0.50 max Other : total 0.35 max	AA 443.1 ASTM B179 (443.1); B275
A04432	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.6 max Mg 0.05 max Mn 0.10 max Si 4.5-6.0 Ti 0.20 max Zn 0.10 max Other : each 0.05 max, total 0.15 max	AA 443.2 ASTM B179 (443.2); B275
A04440	Aluminum Foundry Alloy, Casting	Al rem Cu 0.25 max Fe 0.6 max Mg 0.10 max Mn 0.35 max Si 6.5-7.5 Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA 444.0
A04442	Aluminum Foundry Alloy, ingot	Al rem Cu 0.10 max Fe 0.13-0.25 Mg 0.05 max Mn 0.05 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other : each 0.05 max, total 0.15 max	AA 444.2
A04452	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.6-1.3 Mn 0.10 max Si 6.5-7.5 Zn 0.10 max Other : each 0.10 max, total 0.20 max	AA 445.2
A05050	Aluminum Foundry Alloy, Casting	Al rem Cr 0.04-0.35 Cu 0.15-0.40 Fe 0.7 max Mg 0.8-1.2 Mn 0.15 max Si 0.40-0.8 Ti 0.15 max Zn 0.25 max Other : each 0.05 max, total 0.15 max	AA 505.0
A05051	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.04-0.35 Cu 0.15-0.40 Fe 0.50 max Mg 0.9-1.2 Mn 0.15 max Si 0.40-0.8 Ti 0.15 max Zn 0.25 max Other : each 0.05 max, total 0.15 max	AA 505.1
A05110	Aluminum Foundry Alloy, Casting	Al rem Cu 0.15 max Fe 0.50 max Mg 3.5-4.5 Mn 0.35 max Si 0.30-0.7 Ti 0.25 max Zn 0.15 max Other : each 0.05 max, total 0.15 max	AA 511.0
A05111	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.15 max Fe 0.40 max Mg 3.6-4.5 Mn 0.35 max Si 0.30-0.7 Ti 0.25 max Zn 0.15 max Other : each 0.05 max, total 0.15 max	AA 511.1
A05112	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.30 max Mg 3.6-4.5 Mn 0.10 max Si 0.30-0.7 Ti 0.20 max Zn 0.10 max Other : each 0.05 max, total 0.15 max	AA 511.2
A05120	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 0.35 max Fe 0.6 max Mg 3.5-4.5 Mn 0.8 max Si 1.4-2.2 Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA 512.0 ASTM B26 (512.0); B275
A05122	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.30 max Mg 3.6-4.5 Mn 0.10 max Si 1.4-2.2 Ti 0.20 max Zn 0.10 max Other : each 0.05 max, total 0.15 max	AA 512.2 ASTM B275
A05130	Aluminum Foundry Alloy, Casting	Al rem Cu 0.10 max Fe 0.40 max Mg 3.5-4.5 Mn 0.30 max Si 0.30 max Ti 0.20 max Zn 1.4-2.2 Other : each 0.05 max, total 0.15 max	AA 513.0 ASTM B108 (513.0); B275
A05132	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.30 max Mg 3.6-4.5 Mn 0.10 max Si 0.30 max Ti 0.20 max Zn 1.4-2.2 Other : each 0.05 max, total 0.15 max	AA 513.2 ASTM B179 (513.2); B275

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ALUMINUM AND ALUMINUM ALLOYS

<u>UNIFIED NUMBER</u>	<u>DESCRIPTION</u>	<u>CHEMICAL COMPOSITION</u>	<u>CROSS REFERENCE SPECIFICATIONS</u>
A05140	Aluminum Foundry Alloy, Casting	Al rem Cu 0.15 max Fe 0.50 max Mg 3.5-4.5 Mn 0.35 max Si 0.35 max Ti 0.25 max Zn 0.15 max Other : each 0.05 max, total 0.15 max	AA 514.0 ASTM B26 (514.0); B275; B618 (514.0) SAE J452 (320)
A05141	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.15 max Fe 0.40 max Mg 3.6-4.5 Mn 0.35 max Si 0.35 max Ti 0.25 max Zn 0.15 max Other : each 0.05 max, total 0.15 max	AA 514.1 ASTM B179 (514.1); B275
A05142	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.30 max Mg 3.6-4.5 Mn 0.10 max Si 0.30 max Ti 0.20 max Zn 0.10 max Other : each 0.05 max, total 0.15 max	AA 514.2 ASTM B179 (514.2)
A05150	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 1.3 max Mg 2.5-4.0 Mn 0.40-0.6 Si 0.50-1.0 Zn 0.10 max Other : each 0.05 max, total 0.15 max	AA 515.0
A05152	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.6-1.0 Mg 2.7-4.0 Mn 0.40-0.6 Si 0.50-1.0 Zn 0.05 max Other : each 0.05 max, total 0.15 max	AA 515.2
A05160	Aluminum Foundry Alloy, Casting	Al rem Cu 0.30 nom Fe 0.35-1.0 Mg 2.5-4.5 Mn 0.15-0.40 Ni 0.25-0.40 Pb 0.10 max Si 0.30-1.5 Sn 0.10 max Ti 0.10-0.20 Zn 0.20 max Other : each 0.05 max	AA 516.0
A05161	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.30 max Fe 0.35-0.7 Mg 2.6-4.5 Mn 0.15-0.40 Ni 0.25-0.40 Pb 0.10 max Si 0.30-1.5 Sn 0.10 max Ti 0.10-0.20 Zn 0.20 max Other : each 0.05 max	AA 516.1
A05180	Aluminum Foundry Alloy, Die Casting	Al rem Cu 0.25 max Fe 1.8 max Mg 7.5-8.5 Mn 0.35 max Ni 0.15 max Si 0.35 max Sn 0.15 max Zn 0.15 max Other : total 0.25 max	AA 518.0 ASTM B275; B85 (518.0)
A05181	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.25 max Fe 1.1 max Mg 7.6-8.5 Mn 0.35 max Ni 0.15 max Si 0.35 max Sn 0.15 max Zn 0.15 max Other : total 0.25 max	AA 518.1 ASTM B179 (518.1); B275
A05182	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.7 max Mg 7.6-8.5 Mn 0.10 max Ni 0.05 max Si 0.25 max Sn 0.05 max Other : total 0.10 max	AA 518.2 ASTM B179 (518.2)
A05200	Aluminum Foundry Alloy, Casting	Al rem Cu 0.25 max Fe 0.30 max Mg 9.5-10.6 Mn 0.15 max Si 0.25 max Ti 0.25 max Zn 0.15 max Other : each 0.05 max, total 0.15 max	AA 520.0 ASTM B26 (520.0); B275; B618 (520.0); B917 (520.0) SAE J452 (324)
A05202	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.20 max Mg 9.6-10.6 Mn 0.10 max Si 0.15 max Ti 0.20 max Zn 0.10 max Other : each 0.05 max, total 0.15 max	AA 520.2 ASTM B179 (520.2); B275
A05350	Aluminum Foundry Alloy, Casting	Al rem B 0.005 max Be 0.003-0.007 Cu 0.05 max Fe 0.15 max Mg 6.2-7.5 Mn 0.10-0.25 Si 0.15 max Ti 0.10-0.25 Other : each 0.05 max, total 0.15 max	AA 535.0 ASTM B108 (535.0); B26 (535.0); B275; B618 (535.0) SAE J452
A05352	Aluminum Foundry Alloy, Ingot	Al rem B 0.002 max Be 0.003-0.007 Cu 0.05 max Fe 0.10 max Mg 6.6-7.5 Mn 0.10-0.25 Si 0.10 max Ti 0.10-0.25 Other : each 0.05 max, total 0.15 max	AA 535.2 ASTM B179 (535.2); B275
A07050	Aluminum Foundry Alloy, Casting	Al rem Cr 0.20-0.40 Cu 0.20 max Fe 0.8 max Mg 1.4-1.8 Mn 0.40-0.6 Si 0.20 max Ti 0.25 max Zn 2.7-3.3 Other : each 0.05 max, total 0.15 max	AA 705.0 ASTM B108 (705.0); B26 (705.0); B275; B618 (705.0); B917 (705.0) SAE J452 (311)

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A07051	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.20-0.40 Cu 0.20 max Fe 0.6 max Mg 1.5-1.8 Mn 0.40-0.6 Si 0.20 max Ti 0.25 max Zn 2.7-3.3 Other: each 0.05 max, total 0.15 max	AA 705.1 ASTM B179 (705.1); B275
A07070	Aluminum Foundry Alloy, Casting	Al rem Cr 0.20-0.40 Cu 0.20 max Fe 0.8 max Mg 1.8-2.4 Mn 0.40-0.6 Si 0.20 max Ti 0.25 max Zn 4.0-4.5 Other: each 0.05 max, total 0.15 max	AA 707.0 ASTM B108 (707.0); B26 (707.0); B275; B618 (707.0); B917 (707.0) SAE J452 (312)
A07071	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.20-0.40 Cu 0.20 max Fe 0.6 max Mg 1.9-2.4 Mn 0.40-0.6 Si 0.20 max Ti 0.25 max Zn 4.0-4.5 Other: each 0.05 max, total 0.15 max	AA 707.1 ASTM B179 (707.1); B275
A07090	Aluminum Foundry Alloy, Casting	Al rem Cr 0.18-0.28 Cu 1.2-2.0 Fe 0.50 max Mg 2.1-2.9 Mn 0.30 max Si 0.40 max Ti 0.20 max Zn 5.1-6.1 Other: each 0.05 max, total 0.15 max	AA 709.0
A07091	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.18-0.28 Cu 1.2-2.0 Fe 0.40 max Mg 2.2-2.9 Mn 0.30 max Si 0.40 max Ti 0.20 max Zn 5.1-6.1 Other: each 0.05 max, total 0.15 max	AA 709.1
A07092	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.18-0.28 Cu 1.2-2.0 Fe 0.20 max Mg 2.2-2.9 Mn 0.15 max Si 0.15 max Ti 0.20 max Zn 5.1-6.0 Other: each 0.05 max, total 0.15 max	AA 709.2
A07100	Aluminum Foundry Alloy, Casting	Al rem Cu 0.35-0.6 Fe 0.50 max Mg 0.6-0.8 Mn 0.05 max Si 0.15 max Ti 0.25 max Zn 6.0-7.0 Other: each 0.05 max, total 0.15 max	AA 710.0 ASTM B26 (710.0); B275; B618 (710.0); B917 (710.0) SAE J452 (313)
A07101	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.35-0.6 Fe 0.40 max Mg 0.65-0.8 Mn 0.05 max Si 0.15 max Ti 0.25 max Zn 6.0-7.0 Other: each 0.05 max, total 0.15 max	AA 710.1 ASTM B179 (710.1); B275
A07110	Aluminum Foundry Alloy, Casting	Al rem Cu 0.35-0.6 Fe 0.7-1.4 Mg 0.25-0.45 Mn 0.05 max Si 0.30 max Ti 0.20 max Zn 6.0-7.0 Other: each 0.05 max, total 0.15 max	AA 711.0 ASTM B108 (711.0); B275
A07111	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.35-0.6 Fe 0.7-1.1 Mg 0.30-0.45 Mn 0.05 max Si 0.30 max Ti 0.20 max Zn 6.0-7.0 Other: each 0.05 max, total 0.15 max	AA 711.1 ASTM B179 (711.1); B275
A07120	Aluminum Foundry Alloy, Casting	Al rem Cr 0.40-0.6 Cu 0.25 max Fe 0.50 max Mg 0.50-0.65 Mn 0.10 max Si 0.30 max Ti 0.15-0.25 Zn 5.0-6.5 Other: each 0.05 max, total 0.20 max	AA 712.0 ASTM B26 (712.0); B275; B618 (712.0); B917 (712.0) SAE J452 (310)
A07122	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.40-0.6 Cu 0.25 max Fe 0.40 max Mg 0.50-0.65 Mn 0.10 max Si 0.15 max Ti 0.15-0.25 Zn 5.0-6.5 Other: each 0.05 max, total 0.20 max	AA 712.2 ASTM B179 (712.2); B275
A07130	Aluminum Foundry Alloy, Casting	Al rem Cr 0.35 max Cu 0.40-1.0 Fe 1.1 max Mg 0.20-0.50 Mn 0.6 max Ni 0.15 max Si 0.25 max Ti 0.25 max Zn 7.0-8.0 Other: each 0.10 max, total 0.25 max	AA 713.0 ASTM B108 (713.0); B26 (713.0); B275; B618 (713.0); B917 (713.0); F626 (713.0) SAE J452 (315)
A07131	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.35 max Cu 0.40-1.0 Fe 0.8 max Mg 0.25-0.50 Mn 0.6 max Ni 0.15 max Si 0.25 max Ti 0.25 max Zn 7.0-8.0 Other: each 0.10 max, total 0.25 max	AA 713.1 ASTM B179 (713.1); B275; B327 (ZG71A)

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A07710	Aluminum Foundry Alloy, Casting	Al rem Cr 0.06-0.20 Cu 0.10 max Fe 0.15 max Mg 0.8-1.0 Mn 0.10 max Si 0.15 max Ti 0.10-0.20 Zn 6.5-7.5 Other: each 0.05 max, total 0.15 max	AA 771.0 ASTM B26 (771.0); B618 (771.0); B917 (771.0)
A07712	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.06-0.20 Cu 0.10 max Fe 0.10 max Mg 0.85-1.0 Mn 0.10 max Si 0.10 max Ti 0.10-0.20 Zn 6.5-7.5 Other: each 0.05 max, total 0.15 max	AA 771.2 ASTM B179 (771.2)
A07720	Aluminum Foundry Alloy, Casting	Al rem Cr 0.06-0.20 Cu 0.10 max Fe 0.15 max Mg 0.6-0.8 Mn 0.10 max Si 0.15 max Ti 0.10-0.20 Zn 6.0-7.0 Other: each 0.05 max, total 0.15 max	AA 772.0
A07722	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.06-0.20 Cu 0.10 max Fe 0.10 max Mg 0.65-0.8 Mn 0.10 max Si 0.10 max Ti 0.10-0.20 Zn 6.0-7.0 Other: each 0.05 max, total 0.15 max	AA 772.2
A08500	Aluminum Foundry Alloy, Casting	Al rem Cu 0.7-1.3 Fe 0.7 max Mg 0.10 max Mn 0.10 max Ni 0.7-1.3 Si 0.7 max Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 850.0 ASTM B108 (850.0); B26 (850.0); B618 (850.0); B917 (850.0)
A08501	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.7-1.3 Fe 0.50 max Mg 0.10 max Mn 0.10 max Ni 0.7-1.3 Si 0.7 max Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 850.1 ASTM B179 (850.1)
A08510	Aluminum Foundry Alloy, Casting	Al rem Cu 0.7-1.3 Fe 0.7 max Mg 0.10 max Mn 0.10 max Ni 0.30-0.7 Si 2.0-3.0 Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 851.0 ASTM B108 (851.0); B26 (851.0); B618 (851.0); B917 (851.0)
A08511	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.7-1.3 Fe 0.50 max Mg 0.10 max Mn 0.10 max Ni 0.30-0.7 Si 2.0-3.0 Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 851.1 ASTM B179 (851.1)
A08520	Aluminum Foundry Alloy, Casting	Al rem Cu 1.7-2.3 Fe 0.7 max Mg 0.6-0.9 Mn 0.10 max Ni 0.9-1.5 Si 0.40 max Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 852.0 ASTM B108 (852.0); B26 (852.0); B618 (852.0); B917 (852.0)
A08521	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.7-2.3 Fe 0.50 max Mg 0.7-0.9 Mn 0.10 max Ni 0.9-1.5 Si 0.40 max Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 852.1 ASTM B179 (852.1)
A08530	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 0.7 max Mn 0.50 max Si 5.5-6.5 Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 853.0
A08532	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.50 max Mn 0.10 max Si 5.5-6.5 Sn 5.5-7.0 Ti 0.20 max Other: total 0.30 max	AA 853.2
A12010	Aluminum Foundry Alloy, Casting	Ag 0.40-1.0 Al rem Cu 4.0-5.0 Fe 0.10 max Mg 0.15-0.35 Mn 0.20-0.40 Si 0.05 max Ti 0.15-0.35 Other: each 0.03 max, total 0.10 max	AA A201.0 AMS 4223; 4229; AMS-A-21180 (A210.0) ASTM B686 (A201.0)
A12011	Aluminum Foundry Alloy, Ingot	Ag 0.40-1.0 Al rem Cu 4.0-5.0 Fe 0.07 max Mg 0.20-0.35 Mn 0.20-0.40 Si 0.05 max Ti 0.15-0.35 Other: each 0.03 max, total 0.10 max	AA A201.1
*A12012	Replaced by A12011		

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A12060	Aluminum Foundry Alloy, Casting	Al rem Cu 4.2-5.0 Fe 0.10 max Mg 0.15-0.35 Mn 0.20-0.50 Ni 0.05 max Si 0.05 max Sn 0.05 max Ti 0.15-0.30 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A206.0 AMS 4235; 4236 ASTM B917 (A206.0)
A12062	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.2-5.0 Fe 0.07 max Mg 0.20-0.35 Mn 0.20-0.50 Ni 0.03 max Si 0.05 max Sn 0.05 max Ti 0.15-0.25 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A206.2
A12400	Aluminum Foundry Alloy, Casting replaced by A02400		
A12401	Aluminum Foundry Alloy, Ingot replaced by A02401		
A12420	Aluminum Foundry Alloy, Casting	Al rem Cr 0.15-0.25 Cu 3.7-4.5 Fe 0.8 max Mg 1.2-1.7 Mn 0.10 max Ni 1.8-2.3 Si 0.6 max Ti 0.07-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A242.0 ASTM B26 (A242.0); B917 (A242.0)
A12421	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.15-0.25 Cu 3.7-4.5 Fe 0.6 max Mg 1.3-1.7 Mn 0.10 max Ni 1.8-2.3 Si 0.6 max Ti 0.07-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A242.1 ASTM B179 (A242.1)
A12422	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.15-0.25 Cu 3.7-4.5 Fe 0.6 max Mg 1.3-1.7 Mn 0.10 max Ni 1.8-2.3 Si 0.35 max Ti 0.07-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A242.2 ASTM B179 (A242.2)
* A13050	Aluminum Foundry Alloy, Casting	Al rem Cu 1.0-1.5 Fe 0.20 max Mg 0.10 max Mn 0.10 max Si 4.5-5.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A305.0
* A13051	Aluminum Foundry Alloy, Ingot	Ag 4.5-5.5 Al rem Cu 1.0-1.5 Fe 0.15 max Mn 0.05 max Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A305.1
* A13052	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.13 max Mn 0.05 max Si 4.5-5.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A305.2
A13190	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A319.0
A13191	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.8 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A319.1
A13320	Aluminum Foundry Alloy, Casting replaced by A03360		
A13321	Aluminum Foundry Alloy, Ingot replaced by A03361		
A13322	Aluminum Foundry Alloy, Ingot replaced by A03362		
A13330	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.05-0.50 Mn 0.50 max Ni 0.50 max Si 8.0-10.0 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A333.0

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ALUMINUM AND ALUMINUM ALLOYS

**UNIFIED
NUMBER**

DESCRIPTION

CHEMICAL COMPOSITION

**CROSS REFERENCE
SPECIFICATIONS**

A13331	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.8 max Mg 0.10-0.50 Mn 0.50 max Ni 0.50 max Si 8.0-10.0 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A333.1
A13550	Aluminum Foundry Alloy, Casting	Al rem Cu 1.0-1.5 Fe 0.09 max Mg 0.45-0.6 Mn 0.05 max Si 4.5-5.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A355.0
A13552	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.06 max Mg 0.50-0.6 Mn 0.03 max Si 4.5-5.5 Ti 0.04-0.20 Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA A355.2
A13560	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.20 max Mg 0.25-0.45 Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A356.0 AMS 4218; AMS-A-21180 (A356.0) ASME SFA5.10 (R-A356.0) ASTM B108 (A356.0); B26 (A356.0); B275; B618 (A356.0); B686 (A356.0); B917 (A356.0) AWS A5.10 (R-A356.0) SAE J452 (336)
A13561	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.25 max Fe 0.15 max Mg 0.30-0.45 Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A356.1
A13562	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.12 max Mg 0.30-0.45 Mn 0.05 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A356.2 ASTM B179 (A356.2); B275
A13570	Aluminum Foundry Alloy, Casting	Al rem Be 0.04-0.07 Cu 0.20 max Fe 0.20 max Mg 0.40-0.7 Mn 0.10 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A357.0 AMS 4219; AMS-A-21180 (A357.0) ASME SFA5.10 (R-A357.0) ASTM B108 (A357.0); B686 (A357.0); B917 (A357.0) AWS A5.10 (R-A357.0) SAE J452
A13572	Aluminum Foundry Alloy, Ingot	Al rem Be 0.04-0.07 Cu 0.10 max Fe 0.12 max Mg 0.45-0.7 Mn 0.05 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA A357.2 ASTM B179 (A357.2)
A13590	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.25 max Mg 0.40-0.6 Mn 0.10 max Si 8.5-9.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA A359.0
A13591	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.20 max Mg 0.45-0.6 Mn 0.10 max Si 8.5-9.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA A359.1
A13600	Aluminum Foundry Alloy, Casting	Al rem Cu 0.6 max Fe 1.3 max Mg 0.40-0.6 Mn 0.35 max Ni 0.50 max Si 9.0-10.0 Sn 0.15 max Zn 0.50 max Other: total 0.25 max	AA A360.0 AMS 4290 ASTM B275; B85 (A360.0) SAE J452 (309)
A13601	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.6 max Fe 1.0 max Mg 0.45-0.6 Mn 0.35 max Ni 0.50 max Si 9.0-10.0 Sn 0.15 max Zn 0.40 max Other: total 0.25 max	AA A360.1 ASTM B179 (A360.1); B275
A13602	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.6 max Mg 0.45-0.6 Mn 0.05 max Si 9.0-10.0 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A360.2 ASTM B179 (A360.2)
A13800	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.3 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 3.0 max Other: total 0.50 max	AA A380.0 AMS 4291 ASTM B275; B85 (A380.0) SAE J452 (306)

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A13801	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 2.9 max Other: total 0.50 max	AA A380.1 ASTM B179 (A380.1); B275
A13802	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.6 max Mg 0.10 max Mn 0.10 max Ni 0.10 max Si 7.5-9.5 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A380.2 ASTM B179 (A380.2)
A13830	Aluminum Foundry Alloy, Die Casting	Al rem Cu 2.0-3.0 Fe 1.3 max Mg 0.10-0.30 Mn 0.50 max Ni 0.30 max Si 9.5-11.5 Sn 0.15 max Zn 3.0 max Other: total 0.50 max	AA A383.0
A13831	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-3.0 Fe 1.0 max Mg 0.15-0.30 Mn 0.50 max Ni 0.30 max Si 9.5-11.5 Sn 0.15 max Zn 2.9 max Other: total 0.50 max	AA A383.1
A13840	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.5 Fe 1.3 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 1.0 max Other: total 0.50 max	AA A384.0
A13841	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.5 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 0.9 max Other: total 0.50 max	AA A384.1
A13900	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 0.50 max Mg 0.45-0.65 Mn 0.10 max Si 16.0-18.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA A390.0 SAE J452
A13901	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.40 max Mg 0.50-0.65 Mn 0.10 max Si 16.0-18.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA A390.1
A13910	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.6 max Mg 0.40-0.7 Mn 0.30 max Si 18.0-20.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA A391.0
A13911	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.50 max Mg 0.45-0.7 Mn 0.30 max Si 18.0-20.0 Ti 0.20 max Zn 0.10 max Other: each 0.10 max, total 0.20 max	AA A391.1
A14130	Aluminum Foundry Alloy, Casting	Al rem Cu 1.0 max Fe 1.3 max Mg 0.10 max Mn 0.35 max Ni 0.50 max Si 11.0-13.0 Sn 0.15 max Zn 0.50 max Other: total 0.25 max	AA A413.0 ASTM B275; B85 (A413.0) SAE J452 (305)
A14131	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0 max Fe 1.0 max Mg 0.10 max Mn 0.35 max Ni 0.50 max Si 11.0-13.0 Sn 0.15 max Zn 0.40 max Other: total 0.25 max	AA A413.1 ASTM B179 (A413.1); B275
A14132	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.6 max Mg 0.05 max Mn 0.05 max Ni 0.05 max Si 11.0-13.0 Sn 0.05 max Zn 0.05 max Other: total 0.10 max	AA A413.2 ASTM B179 (A413.2)
A14430	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 0.30 max Fe 0.8 max Mg 0.05 max Mn 0.50 max Si 4.5-6.0 Ti 0.25 max Zn 0.50 max Other: total 0.35 max	AA A443.0 ASTM B275

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A14431	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.25 max Cu 0.30 max Fe 0.6 max Mg 0.05 max Mn 0.50 max Si 4.5- 6.0 Ti 0.25 max Zn 0.50 max Other: total 0.35 max	AA A443.1 ASTM B275
A14440	Aluminum Foundry Alloy, Casting	Al rem Cu 0.10 max Fe 0.20 max Mg 0.05 max Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A444.0 ASTM B108 (A444.0); B275 SAE J452
A14441	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.15 max Mg 0.05 max Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A444.1
A14442	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.05 max Fe 0.12 max Mg 0.05 max Mn 0.05 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A444.2 ASTM B179 (A444.2); B275
A15140	Aluminum Foundry Alloy, Casting replaced by A05130		
A15142	Aluminum Foundry Alloy, Ingot replaced by A05132		
A15350	Aluminum Foundry Alloy, Sand Castings	Al rem Cu 0.10 max Fe 0.20 max Mg 6.5- 7.5 Mn 0.10-0.25 Si 0.20 max Ti 0.25 max Other: each 0.05 max, total 0.15 max	AA A535.0
A15351	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.15 max Mg 6.6- 7.5 Mn 0.10-0.25 Si 0.20 max Ti 0.25 max Other: each 0.05 max, total 0.15 max	AA A535.1
A17120	Aluminum Foundry Alloy, Casting replaced by A07100		
A17121	Aluminum Foundry Alloy, Ingot replaced by A07101		
A18500	Aluminum Foundry Alloy, Casting replaced by A08510		
A18501	Aluminum Foundry Alloy, Ingot replaced by A08511		
A22010	Aluminum Foundry Alloy, Casting	Ag 0.50-1.0 Al rem Cu 4.5-5.0 Fe 0.05 max Mg 0.25-0.35 Mn 0.20-0.50 Si 0.05 max Ti 0.15-0.35 Other: each 0.05 max, total 0.15 max	AA B201.0 AMS 4242
A22060	Aluminum Foundry Alloy, Casting	Al rem Cu 4.2-5.0 Fe 0.10 max Mg 0.15- 0.35 Mn 0.20-0.50 Ni 0.05 max Si 0.05 max Sn 0.05 max Ti 0.10 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA B206.0
A22062	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.2-5.0 Fe 0.07 max Mg 0.20- 0.35 Mn 0.20-0.50 Ni 0.03 max Si 0.05 max Sn 0.05 max Ti 0.05 max Zn 0.05 max Other: 0.05 max, total 0.15 max	AA B206.2
A22063	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.2-5.0 Fe 0.07 max Mg 0.20- 0.35 Mn 0.20-0.50 Ni 0.03 max Si 0.05 max Sn 0.05 max Ti 0.05 max Zn 0.05 max Other: 0.05 max, total 0.15 max	AA B-206.3

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A22950	Aluminum Foundry Alloy, Casting replaced by A02960		
A22951	Aluminum Foundry Alloy, Ingot replaced by A02961		
A22952	Aluminum Foundry Alloy, Ingot replaced by A02962		
A23190	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.2 max Mg 0.10-0.50 Mn 0.8 max Ni 0.50 max Si 5.5-6.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA B319.0 SAE J452 (329)
A23191	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.9 max Mg 0.15-0.50 Mn 0.8 max Ni 0.50 max Si 5.5-6.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA B319.1 SAE J452 (329)
A23560	Aluminum Foundry Alloy, Casting	Al rem Cu 0.05 max Fe 0.09 max Mg 0.25-0.45 Mn 0.05 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA B356.0
A23562	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.03 max Fe 0.06 max Mg 0.30-0.45 Mn 0.03 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA B356.2
A23570	Aluminum Foundry Alloy, Casting	Al rem Cu 0.05 max Fe 0.09 max Mg 0.40-0.6 Mn 0.05 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA B357.0
A23572	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.03 max Fe 0.06 max Mg 0.45-0.6 Mn 0.03 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA B357.2
A23580	Aluminum Foundry Alloy, Casting replaced by A03580		
A23582	Aluminum Foundry Alloy, Ingot replaced by A03582		
A23800	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.3 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 1.0 max Other: total 0.50 max	AA B380.0
A23801	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 0.9 max Other: total 0.50 max	AA B380.1
A23830	Aluminum Foundry Alloy, Casting	Al rem Cu 2.0-3.0 Fe 1.3 max Mg 0.30 max Mn 0.5 max Ni 0.30 max Si 9.5-11.5 Sn 0.15 max Zn 3.0 max Other: total 0.50 max	AA B383.0
A23831	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.0-3.0 Fe 1.0 max Mg 0.30 max Mn 0.50 max Ni 0.30 max Si 9.5-11.5 Sn 0.15 max Zn 2.9 max Other: total 0.50 max	AA B383.1
A23840	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.5 Fe 1.3 max Mg 0.10-0.30 Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 1.0 max Other: total 0.50 max	AA B384.0

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A23841	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.5 Fe 1.0 max Mg 0.15-0.30 Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 0.9 max Other : total 0.50 max	AA B384.1
A23900	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 1.3 max Mg 0.45-0.65 Mn 0.50 max Ni 0.10 max Si 16.0-18.0 Ti 0.20 max Zn 1.5 max Other : each 0.10 max, total 0.20 max	AA B390.0 ASTM B85 (B390.0) SAE J452
A23901	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 1.0 max Mg 0.50-0.65 Mn 0.50 max Ni 0.10 max Si 16.0-18.0 Ti 0.20 max Zn 1.4 max Other : each 0.10 max, total 0.20 max	AA B390.1
A23910	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.20 max Mg 0.40-0.7 Mn 0.30 max Si 18.0-20.0 Ti 0.20 max Zn 0.10 max Other : each 0.10 max, total 0.20 max	AA B391.0
A23911	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.15 max Mg 0.45-0.7 Mn 0.30 max Si 18.0-20.0 Ti 0.20 max Zn 0.10 max Other : each 0.10 max, total 0.20 max	AA B391.1
A24130	Aluminum Foundry Alloy, Casting	Al rem Cu 0.10 max Fe 0.50 max Mg 0.05 max Mn 0.35 max Ni 0.05 max Si 11.0-13.0 Ti 0.25 max Zn 0.10 max Other : each 0.05 max, total 0.20 max	AA B413.0
A24131	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.40 max Mg 0.05 max Mn 0.35 max Ni 0.05 max Si 11.0-13.0 Ti 0.25 max Zn 0.10 max Other : each 0.05 max, total 0.20 max	AA B413.1
A24430	Aluminum Foundry Alloy, Casting	Al rem Cu 0.15 max Fe 0.8 max Mg 0.05 max Mn 0.35 max Si 4.5-6.0 Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA B443.0 ASTM B108 (B443.0); B26 (B443.0); B275; B618 (B443.0)
A24431	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.15 max Fe 0.6 max Mg 0.05 max Mn 0.35 max Si 4.5-6.0 Ti 0.25 max Zn 0.35 max Other : each 0.05 max, total 0.15 max	AA B443.1 ASTM B179 (B443.1)
A24442	Aluminum Foundry Alloy, Ingot (Steel Coating Alloy) replaced by A04452		
A25140	Aluminum Foundry Alloy, Casting replaced by A05120		
A25142	Aluminum Foundry Alloy, Ingot replaced by A05122		
A25350	Aluminum Foundry Alloy, Casting	Al rem Cu 0.10 max Fe 0.15 max Mg 6.5-7.5 Mn 0.05 max Si 0.15 max Ti 0.10-0.25 Other : each 0.05 max, total 0.15 max	AA B535.0
A25352	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.05 max Fe 0.12 max Mg 6.6-7.5 Mn 0.05 max Si 0.10 max Ti 0.10-0.25 Other : each 0.05 max, total 0.15 max	AA B535.2
A27710	Aluminum Foundry Alloy, Casting replaced by A07720		
A27712	Aluminum Foundry Alloy, Ingot replaced by A07722		

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A28500	Aluminum Foundry Alloy, Casting replaced by A08520		
A28501	Aluminum Foundry Alloy, Ingot replaced by A08521		
A33550	Aluminum Foundry Alloy, Casting	Al rem Cu 1.0-1.5 Fe 0.20 max Mg 0.40-0.6 Mn 0.10 max Si 4.5-5.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA C355.0 AMS 4215; AMS-A-21180 (C355.0) ASTM B108 (C355.0); B26 (C355.0); B275; B618 (C355.0); B686 (C355.0); B917 (C355.0) SAE J452 (335)
A33551	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.15 max Mg 0.45-0.6 Mn 0.10 max Si 4.5-5.5 Ti 0.20 max Zr 0.10 max Other: each 0.05 max, total 0.15 max	AA C355.1
A33552	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.13 max Mg 0.50-0.6 Mn 0.05 max Si 4.5-5.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA C355.2 ASTM B179 (C355.2); B275
A33560	Aluminum Foundry Alloy, Casting	Al rem Cu 0.05 max Fe 0.07 max Mg 0.25-0.45 Mn 0.05 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA C356.0
A33562	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.03 max Fe 0.04 max Mg 0.30-0.45 Mn 0.03 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA C356.2
A33570	Aluminum Foundry Alloy, Casting	Al rem Be 0.04-0.07 Cu 0.05 max Fe 0.09 max Mg 0.45-0.7 Mn 0.05 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA C357.0
A33572	Aluminum Foundry Alloy, Ingot	Al rem Be 0.04-0.07 Cu 0.03 max Fe 0.06 max Mg 0.50-0.7 Mn 0.03 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA C357.2
A33800	Aluminum Foundry Alloy, Die Casting	Al rem Cu 3.0-4.0 Fe 1.3 max Mg 0.10-0.30 Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 3.0 max Other: total 0.50 max	AA C380.0
A33801	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.15-0.30 Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 2.9 max Other: total 0.50 max	AA C380.1
A33840	Aluminum Foundry Alloy, Die Casting	Al rem Cu 3.0-4.5 Fe 1.3 max Mg 0.10-0.30 Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 3.0 max Other: total 0.50 max	AA C384.0
A33841	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.5 Fe 1.0 max Mg 0.15-0.30 Mn 0.50 max Ni 0.50 max Si 10.5-12.0 Sn 0.35 max Zn 2.9 max Other: total 0.50 max	AA C384.1
A34430	Aluminum Foundry Alloy, Casting	Al rem Cu 0.6 max Fe 2.0 max Mg 0.10 max Mn 0.35 max Ni 0.50 max Si 4.5-6.0 Sn 0.15 max Zn 0.50 max Other: total 0.25 max	AA C443.0 ASTM B275; B85 (C443.0) SAE J452 (304)
A34431	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.6 max Fe 1.1 max Mg 0.10 max Mn 0.35 max Ni 0.50 max Si 4.5-6.0 Sn 0.15 max Zn 0.40 max Other: total 0.25 max	AA C443.1 ASTM B179 (C443.1); B275

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ALUMINUM AND ALUMINUM ALLOYS

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A34432	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.7-1.1 Mg 0.05 max Mn 0.10 max Si 4.5-6.0 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA C443.2 ASTM B179 (C443.2)
A37120	Aluminum Foundry Alloy, Casting replaced by A07110		
A37121	Aluminum Foundry Alloy, Ingot replaced by A07111		
* A43560	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.15 max Mg 0.30-0.45 Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA D356.0
* A43561	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.12 max Mg 0.35-0.45 Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA D356.1
A43570	Aluminum Foundry Alloy, Casting	Al rem Be 0.04-0.07 Fe 0.20 max Mg 0.55-0.6 Mn 0.10 max Si 6.5-7.5 Ti 0.10-0.20 Other: each 0.05 max, total 0.15 max	AA D357.0 AMS 4241; 4249
A43800	Aluminum Foundry Alloy, Die Casting	Al rem Cu 3.0-4.0 Fe 1.3 max Mg 0.10-0.30 Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 1.0 max Other: total 0.50 max	AA D380.0
A43801	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.15-0.30 Mn 0.50 max Ni 0.50 max Si 7.5-9.5 Sn 0.35 max Zn 0.9 max Other: total 0.50 max	AA D380.1
A47120	Aluminum Foundry Alloy, Casting replaced by A07120		
A47122	Aluminum Foundry Alloy, Ingot replaced by A07122		
A53570	Aluminum Foundry Alloy, Casting	Al rem Be 0.002 max Fe 0.10 max Mg 0.55-0.6 Mn 0.10 max Si 6.5-7.5 Ti 0.10-0.20 Other: each 0.05 max, total 0.15 max	AA E357.0 AMS 4288
A53571	Aluminum Foundry Alloy, Ingot	Al rem Be 0.002 max Fe 0.07 max Mg 0.6-0.7 Mn 0.10 max Si 6.5-7.5 Ti 0.10-0.20 Other: each 0.05 max, total 0.15 max	AA E357.1
A53572	Aluminum Foundry Alloy, Ingot	Al rem Be 0.0003 max Fe 0.07 max Mg 0.6-0.7 Mn 0.10 max Si 6.5-7.5 Ti 0.10-0.20 Other: each 0.05 max, total 0.15 max	AA E357.2
A63320	Aluminum Foundry Alloy, Casting replaced by A03320		
A63321	Aluminum Foundry Alloy, Ingot replaced by A03321		
A63322	Aluminum Foundry Alloy, Ingot replaced by A03322		
A63560	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.20 max Mg 0.17-0.25 Mn 0.10 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA F356.0

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ALUMINUM AND ALUMINUM ALLOYS

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A63562	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.12 max Mg 0.17-0.25 Mn 0.05 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA F356.2
A63570	Aluminum Foundry Alloy, Casting	Al rem Be 0.002 max Cu 0.20 max Fe 0.10 max Mg 0.40-0.7 Mn 0.10 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA F357.0 AMS 4289
A63571	Aluminum Foundry Alloy, Ingot	Al rem Be 0.002 max Cu 0.20 max Fe 0.07 max Mg 0.40-0.7 Mn 0.10 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA F357.1
A63572	Aluminum Foundry Alloy, Ingot	Al rem Be 0.0003 max Cu 0.20 max Fe 0.07 max Mg 0.45-0.7 Mn 0.10 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA F357.2
A65140	Aluminum Foundry Alloy, Casting replaced by A05110		
A65141	Aluminum Foundry Alloy, Ingot replaced by A05111		
A65142	Aluminum Foundry Alloy, Ingot replaced by A05112		
A71001	Aluminum Metal Matrix Composite, Non-heat Treatable (Thermal Spray Wire)	Al 88.0-92.0 (of A91060) Other: Al ₂ O ₃ particles 8.0-12.0	AA 1060/AL2O3/10P AWS C2.25 (W-Al-Al₂O₃)
* A82004	Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD2004
A82014	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD2014 AMS AMS-QQ-A-250/3 ASTM B209 (Alclad 2014)
A82024	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA 1-1/2%ALCLAD2024; 1-1/2%ALCLADONESIDE2024; ALCLAD2024; ALCLADONESIDE2024 AMS 4036; 4040; 4041; 4077; 4194; 4195; 4279; AMS-QQ-A-250/5 ASTM B209 (Alclad 2024)
A82219	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD2219 AMS 4094; 4095; 4096 ASTM B209 (Alclad 2219)
A83003	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Non-Heat Treatable		AA ALCLAD3003; NO.11BRAZINGSHEET; NO.12BRAZINGSHEET; NO.7BRAZINGSHEET; NO.8BRAZINGSHEET AMS 4063; 4064 ASME SB-209; SB-210; SB-234; SB-241 ASTM B209; B209(ALCLAD3003); B210 (Alclad 3003); B221 (Alclad 3003); B234 (Alclad 3003); B241; B345; B404 (Alclad 3003); B547 (Alclad 3003); B548 (Alclad 3003)

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A86061	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD6061 AMS 4021 ASME SB -209 ASTM B209 (Alclad 6061)
A86951	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD6951; NO.13BRAZINGSHEET; NO.14BRAZINGSHEET; NO.21BRAZINGSHEET; NO.22BRAZINGSHEET; NO.23BRAZINGSHEET; NO.24BRAZINGSHEET; NO.33BRAZINGSHEET; NO.34BRAZINGSHEET; NO.44BRAZINGSHEET AMS 4255; 4256
A87050	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA 7050A; ALCLAD7050 AMS 4243
A87075	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA 2-1/2%ALCLAD7075; 2- 1/2%ALCLADONESIDE7075; ALCLAD7075; ALCLADONESIDE7075 AMS 4046; 4048; 4049; 4278; AMS-QQ-A-250/13; AMS-QQ-A-250/18; AMS-QQ-A-250/25; AMS-QQ-A-250/26 ASTM B209 (Alclad 7075)
* A87079	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD7079
A87178	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD7178 AMS AMS-QQ-A- 250/15; AMS-QQ-A-250/22; AMS-QQ- A-250/28 ASTM B209 (Alclad 7178)
A87475	Wrought Aluminum Alloy Clad with Wrought Aluminum Alloy, Heat Treatable		AA ALCLAD7475 AMS 4100; 4207; 4258
* A91030	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.30 min Cu 0.10 max Fe 0.6 max Mg 0.05 max Mn 0.05 max Si 0.35 max Ti 0.03 max V 0.05 max Zn 0.10 max Other: each 0.03 max	AA 1030
* A91035	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.35 min Cu 0.10 max Fe 0.6 max Mg 0.05 max Mn 0.05 max Si 0.35 max Ti 0.03 max V 0.05 max Zn 0.10 max Other: each 0.03 max	AA 1035
* A91040	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.40 min Cu 0.10 max Fe 0.50 max Mg 0.05 max Mn 0.05 max Si 0.30 max Ti 0.03 max V 0.05 max Zn 0.10 max Other: each 0.03 max	AA 1040
* A91045	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.45 min Cu 0.10 max Fe 0.45 max Mg 0.05 max Mn 0.05 max Si 0.30 max Ti 0.03 max V 0.05 max Zn 0.05 max Other: each 0.03 max	AA 1045

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A91050	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.50 min Cu 0.05 max Fe 0.40 max Mg 0.05 max Mn 0.05 max Si 0.25 max Ti 0.03 max V 0.05 max Zn 0.05 max Other : each 0.03 max	AA 1050; 1050A ASTM B491 (1050)
* A91055	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.55 min Cu 0.05 max Fe 0.40 max Mg 0.05 max Mn 0.05 max Si 0.25 max Ti 0.03 max V 0.05 max Zn 0.05 max Other : each 0.03 max	AA 1055
A91060	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.60 min Cu 0.05 max Fe 0.35 max Mg 0.03 max Mn 0.03 max Si 0.25 max Ti 0.03 max V 0.05 max Zn 0.05 max Other : each 0.03 max, (Be 0.0008 max for welding electrode and filler metal only)	AA 1060 AMS 4000 ASME SB-209; SB-210; SB-221; SB-234; SB-241 ASTM B209 (1060); B210 (1060); B211 (1060); B221 (1060); B234 (1060); B241 (1060); B275; B345 (1060); B404 (1060); B483 (1060); B548 (1060); B736 (1060); B918 (1060)
A91065	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.65 min Cu 0.05 max Fe 0.30 max Mg 0.03 max Mn 0.03 max Si 0.25 max Ti 0.03 max V 0.05 max Zn 0.05 max Other : each 0.03 max	AA 1065
A91070	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.70 min Cu 0.04 max Fe 0.25 max Mg 0.03 max Mn 0.03 max Si 0.20 max Ti 0.03 max V 0.05 max Zn 0.04 max Other : each 0.03 max, (Be 0.0003 max for welding electrode, welding rod and filler wire only)	AA 1070; 1070A
* A91075	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.75 min Cu 0.04 max Fe 0.20 max Mg 0.03 max Mn 0.03 max Si 0.20 max Ti 0.03 max V 0.05 max Zn 0.04 max Other : each 0.03 max	AA 1075
A91080	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.80 min Cu 0.03 max Fe 0.15 max Ga 0.03 max Mg 0.02 max Mn 0.02 max Si 0.15 max Ti 0.03 max V 0.05 max Zn 0.03 max Other : each 0.02 max, Be 0.0003 max for welding electrode, welding rod and filler wire only - 1080A	AA 1080; 1080A ASTM B744 (1080); B745 (1080)
A91085	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.85 min Cu 0.03 max Fe 0.12 max Ga 0.03 max Mg 0.02 max Mn 0.02 max Si 0.10 max Ti 0.02 max V 0.05 max Zn 0.03 max Other : each 0.01 max	AA 1085
A91090	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.90 min Cu 0.02 max Fe 0.07 max Ga 0.03 max Mg 0.01 max Mn 0.01 max Si 0.07 max Ti 0.01 max V 0.05 max Zn 0.03 max Other : each 0.01 max	AA 1090
* A91095	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.95 min Cu 0.010 max Fe 0.040 max Mg 0.010 max Mn 0.010 max Si 0.030 max Ti 0.005 max Zn 0.010 max Other : each 0.005 max	AA 1095
A91098	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.98 min Cu 0.003 max Fe 0.006 max Si 0.010 max Ti 0.003 max Zn 0.015 max Other : each 0.003 max	AA 1098

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A91100	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.00 min Cu 0.05-0.20 Mn 0.05 max Zn 0.10 max Other: each 0.05 max, total 0.15 max, (Be 0.0008 max for welding electrode and filler wire only), Fe & Si 0.95 max	AA 1100; 1100A AMS 4001; 4003; 4062; 4180; AMS-QQ-A-225/1; AMS-QQ-A-250/1; AS7220 ASME SB-209; SB-221; SB-241; SFA5.10 (ER1100); SFA5.3 (E1100) ASTM B209 (1100); B210 (1100); B211 (1100); B221 (1100); B241 (1100); B247 (1100); B275; B313 (1100); B361 (WP 1100); B479 (1100); B483 (1100); B491 (1100); B547 (1100); B548 (1100); B736 (1100); B918 (1100) AWS A5.10 (ER1100); A5.3 (E1100); C2.25 (W-Al-1100) FED QQ-A-1876; QQ-A-430; WW-T-700/1 SAE AS7220 (1100); J454 (1100) Other: ISO 18273 (Al 1100)
A91110	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.10 min B 0.02 max Cr 0.01 max Cu 0.04 max Fe 0.8 max Mg 0.25 max Mn 0.01 max Si 0.30 max Other: each 0.03 max, Ti+V 0.03 max	AA 1110
A91120	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.20 min B 0.05 max Cr 0.01 max Cu 0.05-0.35 Fe 0.40 max Ga 0.03 max Mg 0.20 max Mn 0.01 max Si 0.10 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Ti+V 0.02 max	AA 1120
* A91135	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.35 min Cu 0.05-0.20 Mg 0.05 max Mn 0.04 max Ti 0.03 max Zn 0.10 max Other: each 0.03 max, Fe+Si 0.60 max	AA 1135
A91145	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.45 min Cu 0.05 max Mg 0.05 max Mn 0.05 max Ti 0.03 max Zn 0.05 max Other: each 0.03 max, Fe+Si 0.55 max	AA 1145 AMS 4011 ASTM B373 (1145); B479 (1145); B483 (1145); B736 (1145) FED QQ-A-1876
A91150	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.50 min Cu 0.05-0.20 Mg 0.05 max Mn 0.05 max Ti 0.03 max Zn 0.05 max Other: each 0.03 max, Fe+Si 0.45 max	AA 1150
* A91170	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.70 min Cr 0.03 max Cu 0.03 max Mg 0.02 max Mn 0.03 max Ti 0.03 max V 0.05 max Zn 0.04 max Other: each 0.03 max, Fe+Si 0.30 max	AA 1170
* A91175	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.75 min Cu 0.10 max Ga 0.03 max Mg 0.02 max Mn 0.02 max Ti 0.02 max V 0.05 max Zn 0.03 max Other: each 0.02 max, Fe+Si 0.15 max	AA 1175
* A91180	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.80 min Cu 0.01 max Fe 0.09 max Ga 0.03 max Mg 0.02 max Mn 0.02 max Si 0.09 max Ti 0.02 max V 0.03 max Zn 0.03 max Other: each 0.02 max	AA 1180
A91185	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.85 min Cu 0.01 max Ga 0.03 max Mg 0.02 max Mn 0.02 max V 0.05 max Zn 0.03 max Other: each 0.01 max, Fe+Si 0.15 max	AA 1185
A91188	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.88 min Cu 0.005 max Fe 0.06 max Ga 0.03 max Mg 0.01 max Mn 0.01 max Si 0.06 max Ti 0.01 max V 0.05 max Zn 0.03 max Other: each 0.01 max, (Be 0.0008 max for welding electrode and filler wire only)	AA 1188 ASME SFA5.10 (ER1188) AWS A5.10 (ER1188) Other: ISO 18273 (Al 1188)

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A91190	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.90 min B 0.01 max Cr 0.01 max Cu 0.01 max Fe 0.07 max Ga 0.02 max Mg 0.01 max Mn 0.01 max Si 0.05 max Zn 0.02 max Other: each 0.01 max, Ti+V 0.01 max	AA 1190
A91193	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.93 min Cu 0.006 max Fe 0.04 max Ga 0.03 max Si 0.04 max Ti 0.01 max V 0.05 max Zn 0.03 max Other: each 0.01 max	AA 1193
A91198	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.98 min Cu 0.006 max Fe 0.006 max Ga 0.006 max Mn 0.006 max Si 0.010 max Ti 0.006 max Zn 0.010 max Other: each 0.003 max	AA 1198
A91199	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.99 min Cu 0.006 max Fe 0.006 max Ga 0.005 max Mg 0.006 max Mn 0.002 max Si 0.006 max Ti 0.002 max V 0.005 max Zn 0.006 max Other: each 0.002 max	AA 1199
A91200	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.00 min Cu 0.05 max Mn 0.05 max Ti 0.05 max Zn 0.10 max Other: each 0.05 max, total 0.15 max, Fe+Si 1.00 max (Be 0.0003 max for welding electrode, welding rod and filler wire only)	AA 1200; 1200A ASTM B491 (1200)
A91230	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.30 min Cu 0.10 max Mg 0.05 max Mn 0.05 max Ti 0.03 max V 0.05 max Zn 0.10 max Other: each 0.03 max, Fe+Si 0.7 max	AA 1230; 1230A
A91235	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.35 min Cu 0.05 max Mg 0.05 max Mn 0.05 max Ti 0.03 max Zn 0.010 max Other: each 0.03 max, Fe+Si 0.65 max	AA 1235 ASTM B373 (1235); B479 (1235); B491 (1235); B736 (1235) FED QQ-A-1876
* A91250	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.50 min Cr 0.01 max Cu 0.10 max Fe 0.40 max Mg 0.01 max Mn 0.01 max Si 0.20 max Zn 0.05 max Other: each 0.03 max, Ti+V 0.02 max	AA 1250
* A91260	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.60 min Cu 0.04 max Mg 0.03 max Mn 0.01 max Ti 0.03 max V 0.05 max Zn 0.05 max Other: each 0.03 max, (Be 0.0008 max for welding electrode and filler wire only), Fe+Si 0.40 max	AA 1260
A91275	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.75 min Cu 0.05-0.10 Fe 0.12 max Ga 0.03 max Mg 0.02 max Mn 0.02 max Si 0.08 max Ti 0.02 max V 0.03 max Zn 0.03 max Other: each 0.01 max	AA 1275
A91285	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.85 min Cu 0.02 max Fe 0.08 max Ga 0.03 max Si 0.08 max Ti 0.02 max V 0.05 max Zn 0.03 max Other: Fe+Si 0.14 max	AA 1285
A91290	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.90 min Cu 0.050 max Fe 0.030 max Si 0.050 max Other: each 0.01 max	AA 1290
A91300	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.00 min Cu 0.05 max Fe 0.30 max Mg 0.03 max Mn 0.03 max Si 0.20 max Ti 0.03 max Zn 0.20-0.50 Other: each 0.05 max, total 0.15 max	AA 1300
A91345	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.45 min Cu 0.10 max Fe 0.40 max Mg 0.05 max Mn 0.05 max Si 0.30 max Ti 0.03 max V 0.05 max Zn 0.05 max Other: each 0.03 max	AA 1345

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A91350	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.50 min B 0.05 max Cr 0.01 max Cu 0.05 max Fe 0.40 max Ga 0.03 max Mn 0.01 max Si 0.10 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Ti+V 0.02 max	AA 1350; 1350A ASTM B230; B231; B232 (1350); B233; B236; B324; B400 (1350); B401; B524; B549; B778 (1350); B779 (1350); B901 (1350); B918 (1350); F626 (1350) AWS C2.25 (W-AI-1350)
A91370	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.70 min B 0.02 max Cr 0.01 max Cu 0.02 max Fe 0.25 max Ga 0.03 max Mg 0.02 max Mn 0.01 max Si 0.10 max Zn 0.04 max Other: each 0.02 max, total 0.10 max, Ti+V 0.02 max	AA 1370
A91385	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.85 min B 0.02 max Cr 0.01 max Cu 0.02 max Fe 0.12 max Ga 0.03 max Mg 0.02 max Mn 0.01 max Si 0.05 max Zn 0.03 max Other: each 0.01 max, Ti+V 0.03 max	AA 1385
A91435	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.35 min Cu 0.02 max Fe 0.30-0.50 Mg 0.05 max Mn 0.05 max Si 0.15 max Ti 0.03 max V 0.05 max Zn 0.10 max Other: each 0.03 max	AA 1435
A91445	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.45 min Cu 0.04 max Other: total 0.05 max, Cu+Fe+Si 0.50 max	AA 1445
A91450	Wrought Aluminum Alloy, Non-Heat Treatable	Al 99.50 min Cu 0.05 max Fe 0.40 max Mg 0.05 max Mn 0.05 max Si 0.25 max Ti 0.10-0.20 Zn 0.07 max Other: each 0.03 max, (Be 0.0003 max for welding electrode, welding rod and filler wire only)	AA 1450
A92001	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 5.2-6.0 Fe 0.20 max Mg 0.20-0.45 Mn 0.15-0.50 Ni 0.05 max Pb 0.003 max Si 0.20 max Ti 0.20 max Zn 0.10 max Zr 0.05 max Other: each 0.05 max, total 0.15 max	AA 2001
A92002	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.20 max Cu 1.5-2.5 Fe 0.30 max Mg 0.50-1.0 Mn 0.20 max Si 0.35-0.8 Ti 0.20 max Zn 0.20 max Other: each 0.05 max, total 0.15 max	AA 2002
* A92003	Wrought Aluminum Alloy, Heat Treatable	Al rem Cd 0.05-0.20 Cu 4.0-5.0 Fe 0.30 max Mg 0.02 max Mn 0.30-0.8 Si 0.30 max Ti 0.15 max V 0.05-0.20 Zn 0.10 max Zr 0.10-0.25 Other: each 0.05 max, total 0.15 max	AA 2003
A92004	Wrought Aluminum Alloy, Heat Treatable	Al rem Cu 5.5-6.5 Fe 0.20 max, 0.50 max Mg 0.50 max Mn 0.10 max Si 0.20 max Ti 0.05 max Zn 0.10 max Zr 0.30-0.50 Other: each 0.05 max, total 0.15 max	AA 2004 MAM 4209
A92005	Wrought Aluminum Alloy, Heat Treatable	Al rem Bi 0.20 max Cr 0.10 max Cu 3.5-5.0 Fe 0.7 max Mg 0.20-1.0 Mn 1.0 max Ni 0.20 max Pb 1.0-2.0 Si 0.8 max Ti 0.20 max Zn 0.50 max Other: each 0.05 max, total 0.15 max	AA 2005
A92006	Wrought Aluminum Alloy, Heat Treatable	Al rem Cu 1.0-2.0 Fe 0.7 max Mg 0.50-1.4 Mn 0.6-1.0 Ni 0.20 max Si 0.8-1.3 Ti 0.30 max Zn 0.20 max Other: each 0.05 max, total 0.15 max	AA 2006
A92007	Wrought Aluminum Alloy, Heat Treatable	Al rem Bi 0.20 max Cr 0.10 max Cu 3.3-4.6 Fe 0.8 max Mg 0.40-1.8 Mn 0.50-1.0 Ni 0.20 max Pb 0.8-1.5 Si 0.8 max Sn 0.20 max Ti 0.20 max Zn 0.8 max Other: each 0.10 max, total 0.30 max	AA 2007; 2007A

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ALUMINUM AND ALUMINUM ALLOYS

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A92008	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 0.7-1.1 Fe 0.40 max Mg 0.25-0.50 Mn 0.30 max Si 0.50-0.8 Ti 0.10 max V 0.05 max Zn 0.25 max Other: each 0.05 max, total 0.15 max	AA 2008
A92009	Wrought Aluminum Alloy, Heat Treatable	Al rem Cu 3.2-4.4 Fe 0.05 max Mg 1.0-1.6 O 0.6 max Si 0.25 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 2009
A92010	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.15 max Cu 0.7-1.3 Fe 0.50 max Mg 0.40-1.0 Mn 0.10-0.40 Si 0.50 max Zn 0.30 max Other: each 0.05 max, total 0.15 max	AA 2010
A92011	Wrought Aluminum Alloy, Heat Treatable	Al rem Bi 0.20-0.6 Cu 5.0-6.0 Fe 0.7 max Pb 0.20-0.6 Si 0.40 max Zn 0.30 max Other: each 0.05 max, total 0.15 max	AA 2011; 2011A AMS AMS-QQ-A-225/3 ASTM B210 (2011); B211 (2011); B275; B918 (2011) SAE J454 (2011)
A92012	Wrought Aluminum Alloy, Heat Treatable	Al rem Bi 0.20-0.7 Cu 4.0-5.5 Fe 0.7 max Si 0.40 max Sn 0.20-0.6 Zn 0.30 max Other: each 0.05 max, total 0.15 max	AA 2012
A92013	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.04-0.35 Cu 1.5-2.0 Fe 0.40 max Mg 0.8-1.2 Mn 0.25 max Si 0.6-1.0 Ti 0.15 max Zn 0.25 max Other: each 0.05 max, total 0.15 max	AA 2013 AMS 4326
A92014	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 3.9-5.0 Fe 0.7 max Mg 0.20-0.8 Mn 0.40-1.2 Si 0.50-1.2 Ti 0.15 max Zn 0.25 max Other: each 0.05 max, total 0.15 max, Ti+Zr 0.20 max for extruded and forged products only, but only when producer and purchaser mutually agree.	AA 2014; 2014A AMS 4028; 4029; 4121; 4133; 4134; 4153; 4314; AMS-A-22771 (2014); AMS-QQ-A-200/2; AMS-QQ-A-225/4 ASME SB-211; SB-247 ASTM B209 (2014); B210 (2014); B211 (2014); B221 (2014); B241 (2014); B247 (2014); B275; B918 (2014)
A92015	Wrought Aluminum Alloy, Heat Treatable	Al rem Bi 0.40 max Cr 0.15 max Cu 3.9-5.2 Fe 0.8 max Mg 0.30-1.3 Mn 0.30-1.0 Ni 0.20 max Pb 0.20 max Si 0.8 max Sn 0.7-1.5 Ti 0.20 max Zn 0.7 max Other: each 0.05 max, total 0.15 max	AA 2015
A92016	Wrought Aluminum Alloy, Heat-treatable	Ag 0.3-0.7 Al rem Cu 3.5-4.5 Fe 0.15 max Mg 0.30-0.8 Mn 0.10-0.50 Si 0.30-0.7 Ti 0.05-0.15 Zr 0.10-0.25 Other: each 0.05 max, total 0.15 max	AA 2016
A92017	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 3.5-4.5 Fe 0.7 max Mg 0.40-0.8 Mn 0.40-1.0 Si 0.20-0.8 Zn 0.25 max Other: each 0.05 max, total 0.15 max, Ti+Zr 0.20 max for extruded and forged products only, but only when producer and purchaser mutually agree.	AA 2017; 2017A AMS 4118; AMS-QQ-A-225/5 ASTM B211 (2017); B275; B316 (2017); B918 (2017); F2215
A92018	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 3.5-4.5 Fe 1.0 max Mg 0.45-0.9 Mn 0.20 max Ni 1.7-2.3 Si 0.9 max Zn 0.25 max Other: each 0.05 max, total 0.15 max	AA 2018 AMS 4140 ASTM B247 (2018); B275; B918 (2018)
* A92020	Wrought Aluminum Alloy, Heat Treatable	Al rem Cd 0.10-0.35 Cu 4.0-5.0 Fe 0.40 max Li 0.9-1.7 Mg 0.03 max Mn 0.30-0.8 Si 0.40 max Ti 0.10 max Zn 0.25 max Other: each 0.05 max, total 0.15 max	AA 2020
A92021	Wrought Aluminum Alloy, Heat Treatable	Al rem Cd 0.05-0.20 Cu 5.8-6.8 Fe 0.30 max Mg 0.02 max Mn 0.20-0.40 Si 0.20 max Sn 0.03-0.08 Ti 0.02-0.10 V 0.05-0.15 Zn 0.10 max Zr 0.10-0.25 Other: each 0.05 max, total 0.15 max	AA 2021

*Entries with an asterisk are no longer active and are retained for reference purposes only.

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ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A92022	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.05 max Cu 4.5-5.5 Fe 0.20 max Mg 0.10-0.45 Mn 0.15-0.50 Si 0.15 max Ti 0.15 max Zn 0.05-0.30 Other: each 0.05 max, total 0.15 max	AA 2022
A92023	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 3.6-4.5 Fe 0.15 max Mg 1.0-1.6 Mn 0.30 max Sc 0.01-0.06 Si 0.10 max Ti 0.05 max Zr 0.05-0.15 Other: each 0.05 max, total 0.15 max	AA 2023
A92024	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 3.8-4.9 Fe 0.50 max Mg 1.2-1.8 Mn 0.30-0.9 Si 0.50 max Ti 0.15 max Zn 0.25 max Other: each 0.05 max, total 0.15 max, Ti+Zr 0.20 max for extruded and forged products only, but only when producer and purchaser mutually agree.	AA 2024; 2024A AMS 4035; 4037; 4086; 4087; 4088; 4120; 4152; 4164; 4165; 4193; 4254; 4273; 4276; 4297; 4339; AMS-A-81596; AMS-QQ-A-200/3; AMS-QQ-A-225/6; AMS-QQ-A-250/4 ASME SB-211; SB-221 ASTM B209 (2024); B210 (2024); B211 (2024); B221 (2024); B241 (2024); B275; B316 (2024); B744 (2024); B745 (2024); B918 (2024); F1667 (2024); F467; F468 (2024); F901 (2024) SAE J454 (2024)
A92025	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 3.9-5.0 Fe 1.0 max Mg 0.05 max Mn 0.40-1.2 Si 0.50-1.2 Ti 0.15 max Zn 0.25 max Other: each 0.05 max, total 0.15 max	AA 2025 AMS 4130 ASTM B247 (2025); B918 (2025)
A92026	Wrought Aluminum Alloy, Heat Treatable	Al rem Cu 3.6-4.3 Fe 0.07 max Mg 0.30-0.8 Mn 1.0-1.6 Si 0.05 max Ti 0.06 max Zn 0.10 max Zr 0.05-0.25 Other: each 0.05 max, total 0.15 max	AA 2026
A92027	Wrought Aluminum Alloy, Heat-treatable	Al rem Cu 3.9-4.9 Fe 0.15 max Mg 1.0-1.5 Mn 0.50-1.2 Si 0.12 max Ti 0.08 max Zn 0.20 max Zr 0.05-0.15 Other: each 0.05 max, total 0.15 max	AA 2027
A92028	Wrought Aluminum Alloy, Heat Treatable	Al rem Bi 0.10-1.0 Cr 0.10 max Cu 3.3-4.6 Fe 0.8 max Mg 0.40-1.8 Mn 0.50-1.0 Ni 0.20 max Pb 1.0 max Si 0.8 max Sn 0.10-1.0 Ti 0.20 max Zn 0.8 max Other: each 0.10 max, total 0.30 max	AA 2028
A92030	Wrought Aluminum Alloy, Heat Treatable	Al rem Bi 0.20 max Cr 0.10 max Cu 3.3-4.5 Fe 0.7 max Mg 0.50-1.3 Mn 0.20-1.0 Pb 0.8-1.5 Si 0.8 max Ti 0.20 max Other: each 0.10 max, total 0.30 max	AA 2030
A92031	Wrought Aluminum Alloy, Heat Treatable	Al rem Cu 1.8-2.8 Fe 0.6-1.2 Mg 0.6-1.2 Mn 0.50 max Ni 0.6-1.4 Si 0.50-1.3 Ti 0.20 max Zn 0.20 max Other: each 0.05 max, total 0.15 max	AA 2031
A92032	Wrought Aluminum Alloy, Heat Treatable	Al rem Cu 1.5-2.5 Fe 0.6-1.5 Mg 1.2-1.8 Mn 0.20 max Ni 0.6-1.4 Si 0.50-1.3 Ti 0.20 max Zn 0.20 max Other: each 0.05 max, total 0.15 max	AA 2032
A92034	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.05 nom Cu 4.2-4.8 Fe 0.12 nom Mg 1.3-1.9 Mn 0.8-1.3 Si 0.10 nom Ti 0.15 nom Zn 0.20 nom Zr 0.08-0.15 Other: each 0.15 max, total 0.15 max	AA 2034
A92036	Wrought Aluminum Alloy, Heat Treatable	Al rem Cr 0.10 max Cu 2.2-3.0 Fe 0.50 max Mg 0.30-0.6 Mn 0.10-0.40 Si 0.50 max Ti 0.10 max Zn 0.25 max Other: each 0.05 max, total 0.15 max	AA 2036 SAE J454 (2036)

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**Cross Index of commonly known documents which
describe materials same as or similar to these
covered by UNS Numbers**

AA (Aluminum Association) Numbers
(The asterisk indicates an obsolete UNS Number.)

CROSS REFERENCE SPECIFICATIONS	UNIFIED NUMBER	CROSS REFERENCE SPECIFICATIONS	UNIFIED NUMBER	CROSS REFERENCE SPECIFICATIONS	UNIFIED NUMBER
AA		332.1	A03321	411.2	A04112 *
		332.2	A03322	413.0	A04130
		333.0	A03330	413.2	A04132
1-1/2% Alclad 2024	A82024	333.1	A03331	435.2	A04352
1-1/2% Alclad One Side 2024	A82024	336.0	A03360	443.0	A04430
2-1/2% Alclad 7075	A87075	336.1	A03361	443.1	A04431
2-1/2% Alclad One Side 7075	A87075	336.2	A03362	443.2	A04432
100.1	A01001	337.0	A03370 *	444.0	A04440
130.1	A01301	337.1	A03371 *	444.2	A04442
150.1	A01501	338.0	A03380 *	445.2	A04452
160.1	A01601	338.1	A03381 *	505.0	A05050
170.1	A01701	339.0	A03390	505.1	A05051
201.0	A02010	339.1	A03391	511.0	A05110
201.2	A02012	343.0	A03430 *	511.1	A05111
202.0	A02020 *	343.1	A03431 *	511.2	A05112
202.2	A02022 *	354.0	A03540	512.0	A05120
203.0	A02030	354.1	A03541	512.2	A05122
203.2	A02032	355.0	A03550	513.0	A05130
204.0	A02040	355.1	A03551	513.2	A05132
204.2	A02042	355.2	A03552	514.0	A05140
206.0	A02060	356.0	A03560	514.1	A05141
206.2	A02062	356.1	A03561	514.2	A05142
208.0	A02080 *	356.2	A03562	515.0	A05150
208.1	A02081 *	357.0	A03570	515.2	A05152
208.2	A02082 *	357.1	A03571	516.0	A05160
213.0	A02130 *	358.0	A03580	516.1	A05161
213.1	A02131 *	358.2	A03582	518.0	A05180
222.0	A02220 *	359.0	A03590	518.1	A05181
222.1	A02221 *	359.2	A03592	518.2	A05182
224.0	A02240 *	360.0	A03600	520.0	A05200
224.2	A02242 *	360.2	A03602	520.2	A05202
238.0	A02380 *	361.0	A03610	535.0	A05350
238.1	A02381 *	361.1	A03611	535.2	A05352
238.2	A02382 *	362.0	A03620 *	705.0	A07050
240.0	A02400	362.1	A03621 *	705.1	A07051
240.1	A02401	363.0	A03630	707.0	A07070
242.0	A02420	363.1	A03631	707.1	A07071
242.1	A02421	364.0	A03640	709.0	A07090
242.2	A02422	364.2	A03642	709.1	A07091
243.0	A02430 *	365.0	A03650	709.2	A07092
243.1	A02431 *	365.1	A03651	710.0	A07100
249.0	A02490 *	366.0	A03660	710.1	A07101
249.2	A02492 *	366.1	A03661	711.0	A07110
295.0	A02950	367.0	A03670	711.1	A07111
295.1	A02951	367.1	A03671	712.0	A07120
295.2	A02952	368.0	A03680	712.2	A07122
296.0	A02960	368.1	A03681	713.0	A07130
296.1	A02961	369.0	A03690	713.1	A07131
296.2	A02962	369.1	A03691	771.0	A07710
301.0	A03010	380.0	A03800	771.2	A07712
301.1	A03011	380.2	A03802	772.0	A07720
302.0	A03020	381.0	A03810	772.2	A07722
302.1	A03021	381.2	A03812	850.0	A08500
303.0	A03030	383.0	A03830	850.1	A08501
303.1	A03031	383.1	A03831	851.0	A08510
305.0	A03050 *	383.2	A03832	851.1	A08511
305.2	A03052 *	384.0	A03840	852.0	A08520
308.0	A03080	384.1	A03841	852.1	A08521
308.1	A03081	384.2	A03842	853.0	A08530
308.2	A03082	385.0	A03850 *	853.2	A08532
318.0	A03180	385.1	A03851 *	1030	A91030 *
318.1	A03181	390.0	A03900	1035	A91035 *
319.0	A03190	390.2	A03902	1040	A91040 *
319.1	A03191	391.0	A03910	1045	A91045 *
319.2	A03192	391.1	A03911	1050	A91050
320.0	A03200	392.0	A03920	1050A	A91050A
320.1	A03201	392.1	A03921	1055	A91055 *
324.0	A03240 *	393.0	A03930	1060	A91060
324.1	A03241 *	393.1	A03931	1060/Al2O3/10p	A71001
324.2	A03242 *	393.2	A03932	1065	A91065
328.0	A03280	408.2	A04082 *	1070	A91070
328.1	A03281	409.2	A04092	1070A	A91070A
332.0	A03320				

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<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>	<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>	<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>
1075.....	A91075 *	2027.....	A92027	3030.....	A93030
1080.....	A91080	2028.....	A92028	3102.....	A93102
1080A.....	A91080	2030.....	A92030	3103.....	A93103
1085.....	A91085	2031.....	A92031	3103A.....	A93103
1090.....	A91090	2032.....	A92032	3103B.....	A93103
1095.....	A91095 *	2034.....	A92034	3104.....	A93104
1098.....	A91098	2036.....	A92036	3105.....	A93105
1100.....	A91100	2037.....	A92037	3105A.....	A93105
1100A.....	A91100	2038.....	A92038	3105B.....	A93105
1110.....	A91110	2039.....	A92039	3107.....	A93107
1120.....	A91120	2040.....	A92040	3130.....	A93130
1135.....	A91135 *	2048.....	A92048 *	3203.....	A93203
1145.....	A91145	2050.....	A92050	3204.....	A93204
1150.....	A91150	2053.....	A92053 *	3207.....	A93207
1170.....	A91170 *	2056.....	A92056	3207A.....	A93207
1175.....	A91175 *	2080.....	A92080 *	3303.....	A93303 *
1180.....	A91180 *	2090.....	A92090	3304.....	A93304
1185.....	A91185	2091.....	A92091	3307.....	A93307
1188.....	A91188	2094.....	A92094	3403.....	A93403
1190.....	A91190	2095.....	A92095	4002.....	A94002 *
1193.....	A91193	2097.....	A92097	4004.....	A94004
1198.....	A91198	2098.....	A92098	4006.....	A94006
1199.....	A91199	2099.....	A92099	4007.....	A94007
1200.....	A91200	2111.....	A92111	4008.....	A94008
1200A.....	A91200	2111A.....	A92111	4009.....	A94009
1230.....	A91230	2111B.....	A92111	4010.....	A94010
1230A.....	A91230	2117.....	A92117	4011.....	A94011 *
1235.....	A91235	2124.....	A92124	4013.....	A94013
1250.....	A91250 *	2139.....	A92139	4014.....	A94014
1260.....	A91260 *	2195.....	A92195	4015.....	A94015
1275.....	A91275	2196.....	A92196	4015A.....	A94015
1285.....	A91285	2197.....	A92197	4016.....	A94016
1290.....	A91290	2199.....	A92199	4017.....	A94017
1300.....	A91300	2214.....	A92214	4018.....	A94018
1345.....	A91345	2218.....	A92218	4019.....	A94019
1350.....	A91350	2219.....	A92219	4020.....	A94020
1350A.....	A91350	2224.....	A92224	4026.....	A94026
1370.....	A91370	2224A.....	A92224	4032.....	A94032
1385.....	A91385	2297.....	A92297	4043.....	A94043
1435.....	A91435	2319.....	A92319	4043A.....	A94043
1445.....	A91445	2324.....	A92324	4044.....	A94044
1450.....	A91450	2397.....	A92397	4045.....	A94045
2001.....	A92001	2419.....	A92419	4046.....	A94046
2002.....	A92002	2424.....	A92424	4047.....	A94047
2003.....	A92003 *	2519.....	A92519	4047A.....	A94047
2004.....	A92004	2524.....	A92524	4048.....	A94048 *
2005.....	A92005	2618.....	A92618	4104.....	A94104
2006.....	A92006	2618A.....	A92618	4115.....	A94115
2007.....	A92007	3002.....	A93002	4115A.....	A94115
2007A.....	A92007	3003.....	A93003	4145.....	A94145
2008.....	A92008	3004.....	A93004	4145A.....	A94145
2009.....	A92009	3004A.....	A93004	4147.....	A94147
2010.....	A92010	3005.....	A93005	4343.....	A94343
2011.....	A92011	3005A.....	A93005	4543.....	A94543 *
2011A.....	A92011	3006.....	A93006 *	4643.....	A94643
2012.....	A92012	3007.....	A93007	5005.....	A95005
2013.....	A92013	3008.....	A93008 *	5005A.....	A95005
2014.....	A92014	3009.....	A93009	5006.....	A95006
2014A.....	A92014	3010.....	A93010	5010.....	A95010
2015.....	A92015	3011.....	A93011	5013.....	A95013 *
2016.....	A92016	3012.....	A93012	5014.....	A95014 *
2017.....	A92017	3012A.....	A93012	5016.....	A95016
2017A.....	A92017	3013.....	A93013	5017.....	A95017
2018.....	A92018	3014.....	A93014	5018.....	A95018
2020.....	A92020 *	3015.....	A93015	5018A.....	A95018
2021.....	A92021	3016.....	A93016	5019.....	A95019
2022.....	A92022	3017.....	A93017	5019A.....	A95019
2023.....	A92023	3018.....	A93018 *	5021.....	A95021
2024.....	A92024	3019.....	A93019	5022.....	A95022
2024A.....	A92024	3020.....	A93020	5023.....	A95023
2025.....	A92025	3025.....	A93025	5025.....	A95025 *
2026.....	A92026	3026.....	A93026	5026.....	A95026

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<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>	<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>	<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>
5027	A95027	5457	A95457	6101A	A96101
5034	A95034	5483	A95483	6101B	A96101
5039	A95039 *	5505	A95505	6103	A96103
5040	A95040	5552	A95552 *	6105	A96105
5041	A95041	5554	A95554	6106	A96106
5042	A95042	5556	A95556	6110	A96110
5043	A95043	5556A	A95556	6110A	A96110
5049	A95049	5556B	A95556	6111	A96111
5050	A95050	5556C	A95556	6113	A96113
5050A	A95050	5557	A95557	6116	A96116
5051	A95051	5605	A95605	6151	A96151
5051A	A95051	5652	A95652 *	6156	A96156
5052	A95052	5654	A95654	6160	A96160
5056	A95056	5654A	A95654	6162	A96162
5058	A95058	5657	A95657	6181	A96181
5059	A95059	5754	A95754	6181A	A96181
5070	A95070	5854	A95854 *	6182	A96182
5082	A95082	5954	A95954	6201	A96201
5083	A95083	6002	A96002	6201A	A96201
5086	A95086	6003	A96003	6205	A96205
5087	A95087	6004	A96004 *	6206	A96206
5088	A95088	6005	A96005	6253	A96253 *
5091	A95091 *	6005A	A96005	6260	A96260
5106	A95106	6005B	A96005	6261	A96261
5110	A95110	6005C	A96005	6262	A96262
5110A	A95110	6006	A96006	6262A	A96262
5119	A95119	6007	A96007 *	6301	A96301 *
5119A	A95119	6008	A96008	6306	A96306
5140	A95140	6009	A96009	6351	A96351
5149	A95149	6010	A96010	6351A	A96351
5150	A95150	6011	A96011	6360	A96360
5151	A95151	6012	A96012	6401	A96401
5154	A95154	6012A	A96012	6451	A96451
5154A	A95154	6013	A96013	6460	A96460
5154B	A95154	6014	A96014	6463	A96463
5155	A95155 *	6015	A96015	6463A	A96463
5180	A95180	6016	A96016	6501	A96501
5180A	A95180	6016A	A96016	6560	A96560
5182	A95182	6017	A96017 *	6763	A96763
5183	A95183	6018	A96018	6863	A96863 *
5183A	A95183	6019	A96019	6951	A96951
5186	A95186	6020	A96020	6963	A96963
5187	A95187	6021	A96021	7001	A97001 *
5205	A95205	6022	A96022	7003	A97003
5210	A95210	6023	A96023	7004	A97004
5249	A95249	6024	A96024	7005	A97005
5250	A95250 *	6025	A96025	7008	A97008 *
5251	A95251	6026	A96026	7009	A97009
5251A	A95251	6033	A96033	7010	A97010
5252	A95252	6040	A96040	7011	A97011 *
5254	A95254	6041	A96041	7012	A97012
5257	A95257	6043	A96043	7013	A97013 *
5280	A95280 *	6053	A96053	7014	A97014
5283	A95283	6056	A96056	7015	A97015
5283A	A95283	6060	A96060	7016	A97016
5283B	A95283	6061	A96061	7017	A97017
5305	A95305	6061A	A96061	7018	A97018
5310	A95310	6063	A96063	7019	A97019
5349	A95349	6063A	A96063	7019A	A97019
5351	A95351	6064	A96064	7020	A97020
5352	A95352	6064A	A96064	7021	A97021
5354	A95354	6065	A96065	7022	A97022
5356	A95356	6066	A96066	7023	A97023
5356A	A95356	6069	A96069	7024	A97024
5357	A95357 *	6070	A96070	7025	A97025
5383	A95383	6081	A96081	7026	A97026
5449	A95449	6082	A96082	7027	A97027 *
5451	A95451	6082A	A96082	7028	A97028
5454	A95454	6090	A96090 *	7029	A97029
5456	A95456	6091	A96091	7030	A97030
5456A	A95456	6092	A96092	7031	A97031
5456B	A95456	6101	A96101	7032	A97032

AA (Aluminum Association) Numbers

CROSS REFERENCE SPECIFICATIONS	UNIFIED NUMBER	CROSS REFERENCE SPECIFICATIONS	UNIFIED NUMBER	CROSS REFERENCE SPECIFICATIONS	UNIFIED NUMBER
7033	A97033	8017	A98017	A443.0	A14430
7034	A97034	8018	A98018	A443.1	A14431
7035	A97035	8019	A98019	A444.0	A14440
7036	A97036	8020	A98020 *	A444.1	A14441
7037	A97037	8021	A98021	A444.2	A14442
7039	A97039	8021A	A98021	A535.0	A15350
7040	A97040	8021B	A98021	A535.1	A15351
7046	A97046	8022	A98022 *	Alclad 2004	A82004 *
7046A	A97046	8023	A98023	Alclad 2014	A82014
7049	A97049	8024	A98024	Alclad 2024	A82024
7049A	A97049	8025	A98025	Alclad 2219	A82219
7050	A97050	8026	A98026	Alclad 3003	A83003
7050A	A87050	8030	A98030	Alclad 6061	A86061
7050A	A97050	8040	A98040	Alclad 6951	A86951
7051	A97051 *	8050	A98050	Alclad 7050	A87050
7055	A97055	8076	A98076 *	Alclad 7075	A87075
7056	A97056	8076A	A98076 *	Alclad 7079	A87079 *
7060	A97060	8077	A98077	Alclad 7178	A87178
7064	A97064	8079	A98079	Alclad 7475	A87475
7068	A97068	8081	A98081 *	Alclad One Side 2024	A82024
7070	A97070 *	8090	A98090 *	Alclad One Side 7075	A87075
7072	A97072	8091	A98091	B201.0	A22010
7075	A97075	8093	A98093	B206.0	A22060
7076	A97076	8111	A98111	B206.2	A22062
7079	A97079 *	8112	A98112	B-206.3	A22063
7081	A97081	8130	A98130	B319.0	A23190
7085	A97085	8150	A98150	B319.1	A23191
7090	A97090	8176	A98176	B356.0	A23560
7091	A97091 *	8177	A98177 *	B356.2	A23562
7093	A97093	8211	A98211	B357.0	A23570
7095	A97095	8276	A98276 *	B357.2	A23572
7104	A97104 *	8280	A98280 *	B380.0	A23800
7108	A97108	A201.0	A12010	B380.1	A23801
7108A	A97108	A201.1	A12011	B383.0	A23830
7109	A97109 *	A206.0	A12060	B383.1	A23831
7116	A97116	A206.2	A12062	B384.0	A23840
7122	A97122	A242.0	A12420	B384.1	A23841
7129	A97129	A242.1	A12421	B390.0	A23900
7136	A97136	A242.2	A12422	B390.1	A23901
7140	A97140	A305.0	A13050 *	B391.0	A23910
7146	A97146 *	A305.1	A13051 *	B391.1	A23911
7149	A97149	A305.2	A13052 *	B413.0	A24130
7150	A97150	A319.0	A13190	B413.1	A24131
7168	A97168	A319.1	A13191	B443.0	A24430
7175	A97175	A333.0	A13330	B443.1	A24431
7178	A97178	A333.1	A13331	B535.0	A25350
7179	A97179 *	A355.0	A13550	B535.2	A25352
7204	A97204	A355.2	A13552	C355.0	A33550
7229	A97229	A356.0	A13560	C355.1	A33551
7249	A97249	A356.1	A13561	C355.2	A33552
7250	A97250	A356.2	A13562	C356.0	A33560
7277	A97277 *	A357.0	A13570	C356.2	A33562
7278	A97278	A357.2	A13572	C357.0	A33570
7278A	A97278	A359.0	A13590	C357.2	A33572
7349	A97349	A359.1	A13591	C380.0	A33800
7449	A97449	A360.0	A13600	C380.1	A33801
7472	A97472 *	A360.1	A13601	C384.0	A33840
7475	A97475	A360.2	A13602	C384.1	A33841
8001	A98001 *	A380.0	A13800	C443.0	A34430
8004	A98004 *	A380.1	A13801	C443.1	A34431
8005	A98005	A380.2	A13802	C443.2	A34432
8006	A98006	A383.0	A13830	D356.0	A43560 *
8007	A98007	A383.1	A13831	D356.1	A43561 *
8008	A98008	A384.0	A13840	D357.0	A43570
8009	A98009 *	A384.1	A13841	D380.0	A43800
8010	A98010	A390.0	A13900	D380.1	A43801
8011	A98011	A390.1	A13901	E357.0	A53570
8011A	A98011	A391.0	A13910	E357.1	A53571
8013	A98013 *	A391.1	A13911	E357.2	A53572
8014	A98014	A413.0	A14130	F356.0	A63560
8015	A98015	A413.1	A14131	F356.2	A63562
8016	A98016	A413.2	A14132	F357.0	A63570

AA (Aluminum Association) Numbers

<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>
F357.1.....	A63571
F357.2.....	A63572
No. 7 Brazing Sheet.....	A83003
No. 8 Brazing Sheet.....	A83003
No. 11 Brazing Sheet.....	A83003
No. 12 Brazing Sheet.....	A83003
No. 13 Brazing Sheet.....	A86951
No. 14 Brazing Sheet.....	A86951
No. 21 Brazing Sheet.....	A86951
No. 22 Brazing Sheet.....	A86951
No. 23 Brazing Sheet.....	A86951
No. 24 Brazing Sheet.....	A86951
No. 33 Brazing Sheet.....	A86951
No. 34 Brazing Sheet.....	A86951
No. 44 Brazing Sheet.....	A86951
X2096	A92096
X6030	A96030 *

<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>
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<u>CROSS REFERENCE SPECIFICATIONS</u>	<u>UNIFIED NUMBER</u>
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Appendix

NUMBERING METALS AND ALLOYS

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

UNS designations shall not be used for metals and alloys which are not registered under the system described herein, or for any metal or alloy whose composition differs from those registered.

1. **Scope**

1.1 This SAE Recommended Practice describes a unified numbering system (UNS) for metals and alloys which have a "commercial standing" (see 6.1), and covers the procedure by which such numbers are assigned.

Section 2 describes the system of alphanumeric designations or "numbers" established for each family of metals and alloys.

Section 3 outlines the organization established for administering the system.

Section 4 describes the procedure for requesting number assignment to metals and alloys for which UNS numbers have not previously been assigned.

1.2 The UNS provides a means of correlating many nationally used numbering systems currently administered by societies, trade associations, and individual users and producers of metals and alloys, thereby avoiding confusion caused by use of more than one identification number for the same material; and by the opposite situation of having the same number assigned to two or more entirely different materials. It provides, also, the uniformity necessary for efficient indexing, record keeping, data storage and retrieval, and cross referencing.

1.3 A UNS number is not in itself a specification, since it establishes no requirements for form, condition, quality, etc. It is a unified identification of metals and alloys for which controlling limits have been established in specifications published elsewhere. (See 6.2.)

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TO PLACE A DOCUMENT ORDER; (412) 776-4970 FAX: (412) 776-0790
<http://www.sae.org>

SAE J1086 and ASTM E 527 Revised JUL95

2. References

2.1 Related Publications—The following publications are provided for information purposes only and are not a required part of this document.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE HS-1086—Metals and Alloys in the Unified Numbering System

2.1.2 ASTM PUBLICATIONS—Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM E 527—Practice for Numbering Metals and Alloys (UNS)

ASTM Publication No. DS-56—Metals and Alloys and the Unified Numbering System

3. Description of Numbers (or Codes) Established for Metals and Alloys

3.1 The unified numbering system (UNS) establishes 18 series of numbers for metals and alloys, as shown in Table 1. Each UNS number consists of a single letter-prefix followed by five digits. In most cases the letter is suggestive of the family of metals identified, for example, A for aluminum, P for precious metals, S for stainless steels. Table 2 shows the secondary division of some primary series of numbers.

3.2 Whereas some of the digits in certain of the UNS number groups have special assigned meaning, each series is independent of the others in such significance; this practice permits greater flexibility and avoids complicated and lengthy UNS numbers. (See 6.3.)

TABLE 1—PRIMARY SERIES OF NUMBERS

UNS Series	Metal
Nonferrous metals and alloys	
A00001-A99999	Aluminum and aluminum alloys
C00001-C99999	Copper and copper alloys
E00001-E99999	Rare earth and rare earth-like metals and alloys (18 Items, see Table 2)
L00001-L99999	Low melting metals and alloys (14 Items, see Table 2)
M00001-M99999	Miscellaneous nonferrous metals and alloys (12 Items, see Table 2)
N00001-N99999	Nickel and nickel alloys
P00001-P99999	Precious metals and alloys (8 Items, see Table 2)
R00001-R99999	Reactive and refractory metals and alloys (14 Items, see Table 2)
Z00001-Z99999	Zinc and zinc alloys
Ferrous metals and alloys	
D00001-D99999	Specified mechanical properties steels
F00001-F99999	Cast irons
G00001-G99999	AISI and SAE carbon and alloy steels (except tool steels)
H00001-H99999	AISI H-steels
J00001-J99999	Cast steels (except tool steels)
K00001-K99999	Miscellaneous steels and ferrous alloys
S00001-S99999	Heat and corrosion resistant (stainless) steels
T00001-T99999	Tool steels
Welding filler metals	
W00001-W99999	Welding filler metals, covered and tubular electrodes, classified by weld deposit composition (see Table 2)

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TABLE 2—SECONDARY DIVISION OF SOME SERIES OF NUMBERS

UNS Series	Metal	UNS Series	Metal
E00001-E99999 Rare earth and rare earthlike metals and alloys		P00001-P99999 Precious metals and alloys	
E00000-E00999	Actinium	P00001-P00999	Gold
E01000-E20999	Cerium	P01001-P01999	Iridium
E21000-E45999	Mixed rare earths ⁽¹⁾	P02001-P02999	Osmium
E46000-E47999	Dysprosium	P03001-P03999	Palladium
E48000-E49999	Erbium	P04001-P04999	Platinum
E50000-E51999	Europium	P05001-P05999	Rhodium
E52000-E55999	Gadolinium	P06001-P06999	Ruthenium
E56000-E57999	Holmium	P07001-P07999	Silver
E58000-E67999	Lanthanum		
E68000-E68999	Lutetium	R00001-R99999 Reactive and refractory metals and alloys	
E69000-E73999	Neodymium		
E74000-E77999	Praseodymium		
E78000-E78999	Promethium	R01001-R01999	Boron
E79000-E82999	Samarium	R02001-R02999	Hafnium
E83000-E84999	Scandium	R03001-R03999	Molybdenum
E85000-E86999	Terbium	R04001-R04999	Niobium (Columbium)
E87000-E87999	Thulium	R05001-R05999	Tantalum
E88000-E89999	Ytterbium	R06001-R06999	Thorium
E90000-E99999	Yttrium	R07001-R07999	Tungsten
		R08001-R08999	Vanadium
F00001-F99999 Cast irons	Gray, malleable, pearlitic malleable, and ductile (nodular) cast irons	R10001-R19999	Beryllium
		R20001-R29999	Chromium
		R30001-R39999	Cobalt
		R40001-R49999	Rhenium
		R50001-R59999	Titanium
		R60001-R69999	Zirconium
K00001-K99999 Miscellaneous steels and ferrous alloys			
L00001-L99999 Low-melting metals and alloys		W00001-W99999 Welding filler metals, classified by weld deposit composition	
L00001-L00999	Bismuth	W00001-W09999	Carbon steel with no significant alloying elements
L01001-L01999	Cadmium		
L02001-L02999	Cesium	W10000-W19999	Manganese-molybdenum low alloy steels
L03001-L03999	Gallium		
L04001-L04999	Indium	W20000-W29999	Nickel low alloy steels
L06001-L06999	Lithium	W30000-W39999	Austenitic stainless steels
L07001-L07999	Mercury	W40000-W49999	Ferritic stainless steels
L08001-L08999	Potassium	W50000-W59999	Chromium low alloy steels
L09001-L09999	Rubidium	W60000-W69999	Copper base alloys
L10001-L10999	Selenium	W70000-W79999	Surfacing alloys
L11001-L11999	Sodium	W80000-W89999	Nickel base alloys
L13001-L13999	Tin		
L50001-L59999	Lead	Z00001-Z99999 Zinc and zinc alloys	Zinc
M00001-M99999 Miscellaneous nonferrous metals and alloys			
M00001-M00999	Antimony		
M01001-M01999	Arsenic		
M02001-M02999	Barium		
M03001-M03999	Calcium		
M04001-M04999	Germanium		
M05001-M05999	Plutonium		
M06001-M06999	Strontium		
M07001-M07999	Tellurium		
M08001-M08999	Uranium		
M10001-M19999	Magnesium		
M20001-M29999	Manganese		
M30001-M39999	Silicon		

1. Alloys in which the rare earths are used in the ratio of their natural occurrence (that is, unseparated rare earths). In this mixture, cerium is the most abundant of the rare earth elements.

3.3 Wherever feasible, identification "numbers" from existing systems are incorporated into the UNS numbers. For example: The carbon steel which is presently identified by "AISI 1020" (American Iron & Steel Institute) is covered by "UNS G10200" and the nickel alloy presently identified by "M252" is covered by "UNS N07252."

3.4 Welding filler metals fall into two general categories: those whose compositions are determined by the filler metal analysis (e.g., solid bare wire or rods and cast rods), and those whose composition is determined by the weld deposit analysis (e.g., covered electrodes, flux-cored and other composite wire electrodes). The latter are assigned to a new primary series with the letter W as shown in Table 1. The solid bare wire and rods continue to be assigned in the established number series according to their composition.

(Readers are cautioned not to make their own "assignments" of numbers from such listings, as this can result in unintended and unexpected duplication and conflict.)

3.5 The ASTM and the SAE periodically publish up-to-date listings of all UNS numbers assigned to specific metals and alloys, with appropriate reference information on each. (See 6.6.) Many trade associations also publish similar listings related to materials of primary interest to their organizations.

4. *Organization for Administering Unified Numbering System for Metals and Alloys*

4.1 The organization for administering the UNS consists of: (1) an advisory board, (2) several number-assigning offices, (3) a corps of volunteer consultants, and (4) staffs at ASTM and SAE. In addition, SAE and ASTM committees dealing with various groups of materials may be consulted.

4.1.1 The Advisory Board has approximately 20 volunteer members who are affiliated with major producing and using industries, trade associations, government agencies, and standards societies, and who have extensive experience with identification, classification, and specification of materials. The Board is the administrative arm of SAE and ASTM on all matters pertaining to the UNS. It coordinates thinking on the format of each series of numbers and the administration of each by selected experts. It sets up ground rules for determining eligibility of any material for a UNS number, for requesting such numbers, and for appealing unfavorable rulings. It is the final referee on matters of disagreement between requesters and assigners.

4.1.2 UNS number assigners for certain materials are set up at trade associations which have successfully administered their own numbering systems; for other materials, assigners are located at the offices of SAE and ASTM. Each of these assigners has the responsibility for administering a specific series of numbers, as shown in Table 3. Each considers requests for assignment of new UNS numbers, and informs applicants of the action taken. Trade association UNS number assigners also report immediately to both SAE and ASTM details of each number assignment. ASTM and SAE assigners collaborate with designated consultants when considering requests for assignment of new numbers.

4.1.3 Consultants are selected by the Advisory Board to provide expert knowledge of a specific field of materials. Since they are utilized primarily by the Board and the SAE and ASTM number assigners, they are not listed in this document. At the request of the ASTM or SAE number assigner, a consultant considers a request for a new number in light of the ground rules established for the material involved, decides whether a new number is justified, and informs the ASTM or SAE number assigner accordingly.

This utilization of experts (consultants and number assigners) is intended to insure prompt and fair consideration of all requests. It permits each decision to be based on current knowledge of the needs of a specific industry of producers and users.

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TABLE 3—NUMBER ASSIGNERS AND AREAS OF RESPONSIBILITY

<p>The Aluminum Association 900 19th Street, NW, Suite 30 Washington, DC 20006 Telephone: (202) 862-5100</p>	<p>Aluminum and aluminum alloys UNS Number Series: A00001-A99999</p>
<p>American Society for Testing and Materials 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Attention: Office for Unified Numbering System for Metals Telephone: (215) 299-5400</p>	<p>Rare earth and rare earth-like metals and alloys UNS Number Series: E00001-E99999</p> <p>Cast irons UNS Number Series: F00001-F99999</p> <p>Cast steels UNS Number Series: J00001-J99999</p> <p>Miscellaneous steels and ferrous alloys UNS Number Series: K00001-K99999</p> <p>Low melting metals and alloys UNS Number Series: L00001-L99999</p> <p>Miscellaneous nonferrous metals and alloys UNS Number Series: M00001-M99999</p> <p>Precious metals and alloys UNS Number Series: P00001-P99999</p>
<p>American Welding Society 550 N.W. LeJeune Road P.O. Box 351040 Miami, FL 33135 Attention: Office for Unified Numbering System Telephone: (800) 443-9353 Fax: 303-443-7559</p>	<p>Welding filler metals UNS Number Series: W00001-W99999</p>
<p>Copper Development Association 260 Madison Avenue New York, NY 10016-2401 Attention: Office for Unified Numbering System for Metals Telephone: (212) 251-7200</p>	<p>Copper and copper alloys UNS Number Series: C00001-C99999</p>
<p>SAE (Society of Automotive Engineers) 400 Commonwealth Drive Warrendale, PA 15096-0001 Attention: Office for Unified Numbering System for Metals Telephone: (412) 776-4841</p>	<p>Carbon and alloy steels UNS Number Series: G00001 - G99999</p> <p>H-steels UNS Number Series: H00001-H99999</p> <p>Nickel and nickel alloys UNS Number Series: N00001-N99999</p> <p>Heat and corrosion resistant (stainless) steels UNS Number Series: S00001 - S99999</p> <p>Tool steels UNS Number Series: T00001 - T99999</p>
<p>Zinc Institute, Inc. 292 Madison Avenue New York, NY 10017 Attention: Office for Unified Numbering System for Metals Telephone: (212) 578-4750</p>	<p>Zinc and zinc alloys UNS Number Series: Z00001 - Z99999</p>

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- 4.1.4 Staff members at SAE and ASTM maintain duplicate master listings of all UNS numbers assigned.
- 4.1.5 Established SAE and ASTM committees which normally deal with standards and specifications for the materials covered by the UNS, and other knowledgeable persons, are called upon by the Advisory Board for advice when considering appeals from unfavorable rulings in the matter of UNS number assignments.
- 5. *Procedure for Requesting Number Assignment to Metals and Alloys Not Already Covered by UNS Numbers (or Codes)***
- 5.1 UNS numbers are assigned only to metals and alloys which have a commercial standing (as defined in 6.1).
- 5.2 The need for a new number should always be verified by determining from the latest complete listing of already assigned UNS numbers that a usable number is not available. (See 6.4.)
- 5.3 For a new UNS number to be assigned, the composition (or other properties, as applicable) must be significantly different from those of any metal or alloy which has already been assigned a UNS number.
 - 5.3.1 In the case of metals or alloys that are normally identified or specified by chemical composition, the chemical composition limits must be reported.
 - 5.3.2 In the case of metals or alloys which are normally identified or specified by mechanical (or other) properties, such properties and limits thereof must be reported. Only those chemical elements and limits, if any, which are significant in defining such materials need be reported.
- 5.4 Requests for new numbers shall be submitted on "Application for UNS Number Assignment" forms (Figure 1). Copies of these are available from any UNS number assigning office (Table 3) or facsimiles may be made of the one herein.
- 5.5 All instructions on the printed application form should be read carefully and all information provided as indicated. (See 6.5.)
- 5.6 To further assist in assigning UNS numbers, the requester is encouraged to suggest a possible UNS number in each request, giving appropriate consideration to any existing number presently used by a trade association, standards society, producer, or user.
- 5.7 Each completed application form shall be sent to the UNS number assigning office having responsibility for the series of numbers which appears to most closely relate to the material described on the form (Table 3).

**APPLICATION FOR UNS NUMBER ASSIGNMENT
and
Data Input Sheet for Entering a Specific Material in the
SAE-ASTM Unified Numbering System for Metals and Alloys
(See Reverse Side for Instructions for Completing This Form)**

Material Description _____

Suggested UNS No. _____

*UNS Assigned Description _____

*UNS Assigned No. _____

***Chemical Composition (percent by wt.)**

Silver	Ag	_____	Hafnium	Hf	_____	Sulfur	S	_____
Aluminum	Al	_____	Mercury	Hg	_____	Antimony	Sb	_____
Arsenic	As	_____	Indium	In	_____	Selenium	Se	_____
Gold	Au	_____	Iridium	Ir	_____	Silicon	Si	_____
Boron	B	_____	Lithium	Li	_____	Tin	Sn	_____
Beryllium	Be	_____	Magnesium	Mg	_____	Tantalum	Ta	_____
Bismuth	Bi	_____	Manganese	Mn	_____	Tellurium	Te	_____
Carbon	C	_____	Molybdenum	Mo	_____	Thorium	Th	_____
Columbium	Cb	_____	Nitrogen	N	_____	Titanium	Ti	_____
Cadmium	Cd	_____	Nickel	Ni	_____	Uranium	U	_____
Cobalt	Co	_____	Oxygen	O	_____	Vanadium	V	_____
Chromium	Cr	_____	Phosphorus	P	_____	Tungsten	W	_____
Copper	Cu	_____	Lead	Pb	_____	Zinc	Zn	_____
Iron	Fe	_____	Platinum	Pt	_____	Zirconium	Zr	_____
Germanium	Ge	_____	Rhenium	Re	_____			
Hydrogen	H	_____	Rhodium	Rh	_____			

Other _____

***Cross References**

AA _____
 ACI _____
 AISI _____
 AMS _____
 ANSI _____
 ASME _____
 ASTM _____
 AWS _____
 CDA _____
 FED _____
 MIL SPEC _____
 SAE _____
 OTHER _____

Requesting Person and Organization (full address) _____
 Date of Request _____

*Assigning Org. _____ *Date of UNS Assignment _____
 Assigner's Name and Office _____

Applicant: DO NOT write in shaded areas.

* These items for Computer Operator

FIGURE 1A—APPLICATION FORM FOR UNS NUMBER ASIGNMENT (FRONT)

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GENERAL

Before attempting to complete this form, the applicant should be thoroughly familiar with the objectives of the UNS and the "ground rules" for assigning numbers, as stated in Section 4 of SAE J1086 and ASTM E 527.

MATERIAL DESCRIPTION

Identify: the base element; the single alloying element that constitutes 50% or more of the total alloy content; other distinguishing predominant characteristics (such as "casting"); and common or generic names if any (such as "ounce metal" or "Waspalloy"). When no single element makes up 50% or more of the total alloy content, list in decreasing order of abundance the two alloying elements which together constitute the largest portion of the total alloy content; except that if no two elements make up at least 50% of the total alloy content, list the three most abundant, and so on. Instead of "iron," use "steel" to identify the base element of those iron-low-carbon alloys commonly known as steels.

When mechanical properties or physical characteristics are the primary defining criteria and chemical composition is secondary or nonsignificant, enter such properties and characteristics with the appropriate values or limits for each.

SUGGESTED UNS NO.

While applicant's suggestion may or may not be the one finally assigned, it will assist proper identification of the material by the UNS Number Assigner.

CHEMICAL COMPOSITION

Enter limits such as 0.13-0.18 (not .13-.18 or 0.13 to 0.18), 1.5 max, 0.040 min, and balance. In space designated "other," enter information such as "0.05 max each, 0.15 max total" and "Sn+Pb 2.0 min." Additional specific elements not included in the list on this form may be entered in the spaces provided at the end of the list.

CROSS REFERENCES

Letter symbols listed indicate widely known trade associations and standards issuing organizations. Enter after appropriate symbols any known specification numbers or identification numbers issued by such groups to cover material equivalent to, similar to, or closely resembling the subject material.

Examples: SAE J404 (50B44), AISI 415, ASTM A 638 (660)

In space designated "other" enter any pertinent numbers issued by groups not listed above. In these instances, the full name and address of the issuing group shall be included.

**SUBMIT COMPLETED FORM TO
APPROPRIATE UNS NUMBER
ASSIGNER, AS LISTED IN
SAE J1086 AND ASTM E 527**

FIGURE 1B—APPLICATION FORM FOR UNS NUMBER ASSIGNMENT (BACK)

6. Notes

- 6.1** The terms "commercial standing," "production usage," and others, are intended to portray a material in active industrial use, although the actual amount of such use will depend, among other things, upon the type of materials. (Obviously gold will not be used in the same "tonnages" as hot rolled steel.)

Different standardizing groups use different criteria to define the status that a material has to attain before a standard number will be assigned to it. For instance, the American Iron and Steel Institute requires for stainless steels "two or more producers with combined production of 200 tons per year for at least two years"; the Copper Development Association requires that the material be "in commercial use (without tonnage limits)"; the Aluminum Association requires that the alloy must be "offered for sale (not necessarily in commercial use)"; the SAE Aerospace Materials Division calls for "repetitive procurement by at least two users."

While it is apparent that no hard and fast usage definition can be set up for an all-encompassing system, the UNS numbers are intended to identify metals and alloys that are in more or less regular production and use.

A UNS number will not ordinarily be issued for a material which has just been conceived or which is still in only experimental trial.

- 6.2** Organizations that issue specifications should report to appropriate UNS number assigning offices (see 4.1.2) any specification changes which affect descriptions shown in published UNS listings.
- 6.3** This arrangement of alphanumeric six character numbers is a compromise of the thinking that identification numbers should indicate many characteristics of the material, and the thinking that numbers should be short and uncomplicated to be widely accepted and used.
- 6.4** In assigning UNS numbers, and consequently in searching complete listings of numbers, the predominant element of the metal or alloy usually determines the prefix letter of the series to which it is assigned. In certain instances where no one element predominates, arbitrary decisions are made as to what prefix letter to use, depending upon the producing industry and other factors.
- 6.5** The application form is designed to serve also as a data input sheet to facilitate processing each request through to final printout of the data on electronic data processing equipment and to minimize transcription errors at number-assigning offices and data processing centers.
- 6.6** One such listing is ASTM Publication No. DS-56 and SAE Handbook Supplement HS-1086 (a joint ASTM-SAE publication).
- 6.7** **Marginal Indicia**—The change bar (I) located in the left margin is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

PREPARED BY THE SAE UNIFIED NUMBERING SYSTEM ADVISORY BOARD

SAE J1086 and ASTM E 527 Revised JUL95

Rationale—The only change to the document was in Table 3—Copper Development Association's address changed.

Relationship of SAE Standard to ISO Standard—Not applicable.

Application—This SAE Recommended Practice describes a unified numbering system (UNS) for metals and alloys which have a "commercial standing" (see 6.1), and covers the procedure by which such numbers are assigned.

Section 2 describes the system of alphanumeric designations or "numbers" established for each family of metals and alloys.

Section 3 outlines the organization established for administering the system.

Section 4 describes the procedure for requesting number assignment to metals and alloys for which UNS numbers have not previously been assigned.

The UNS provides a means of correlating many nationally used numbering systems currently administered by societies, trade associations, and individual users and producers of metals and alloys, thereby avoiding confusion caused by use of more than one identification number for the same material; and by the opposite situation of having the same number assigned to two or more entirely different materials. It provides, also, the uniformity necessary for efficient indexing, record keeping, data storage and retrieval, and cross referencing.

A UNS number is not in itself a specification, since it establishes no requirements for form, condition, quality, etc. It is a unified identification of metals and alloys for which controlling limits have been established in specifications published elsewhere. (See 6.2.)

Reference Section

SAE HS-1086—Metals and Alloys in the Unified Numbering System

ASTM E 527—Practice for Numbering Metals and Alloys (UNS)

ASTM Publication No. DS-56—Metals and Alloys and the Unified Numbering System

Developed by the SAE Unified Numbering System Advisory Board

SAE-HS1086

ADOPTION NOTICE

SAE-HS1086, "Metals and Alloys in the Unified Numbering System," was adopted on 02-MAR-93 for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Department of the Army, US Army Research Laboratory Materials Directorate, ATTN: AMSRL-MA-S, Watertown, MA 02172-0001. DoD activities may obtain copies of this standard from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. The private sector and other Government agencies may purchase copies from the Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096.

Custodians:

Army - MR
Air Force - 99

Adopting Activities:

Army - MR
(Project 95GP-0400)

Reviewer Activities:

Army - AR
Nave - OS, SH
Air Force - 84
DLA - IS

FSC 95GP

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

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1.4956.....	R30155	2.....	K02500	2L96.....	A97075
1.4957.....	R30155	2.....	K03506	2L97.....	A92024
1.4958.....	N08810	2.....	K04002	2L98.....	A92024
1.4959.....	N08811	2.....	K05000	2L 126.....	M12330
1.4960.....	N07002 *	2.....	K05001	2L 126.....	M12331
1.4961.....	S34709	2.....	K06002	2L 128.....	M16410
1.4971.....	R30155	2.....	K11509	2L 503.....	M11610
1.4974.....	R30155	2.....	K11540	2N.....	J13005
1.4977.....	R30590	2.....	K11900 *	2ND8.....	G46200
1.4980.....	S66286	2.....	K12143	2NiCr185.....	S30403
1.5223.....	G13400	2.....	K12765	2-Nuts.....	G10420
1.5415.....	K12822	2.....	K12766	2-Nuts.....	G10440
1.5422.....	J03003	2.....	K14542	2-Nuts.....	G10450
1.5423.....	K11522	2.....	K19195	2 Pewter.....	L13912
1.5432.....	G40370	2.....	K22573	2Q.....	J03011
1.5432.....	G40420	2.....	K22578	2R68.....	S31603
1.5638.....	J31500	2.....	K32800	2R68HV.....	S31603
1.5711.....	G31400	2.....	K34035	2RE69.....	S31050
1.5713.....	T51603 *	2.....	K92650	2RK65.....	N08904
1.5919.....	G43200	2.....	K94840	2S.....	A91200
1.5919.....	H43200	2.....	L13890	2S129.....	S32100
1.6354.....	K93120	2.....	N02233	2S139.....	S34700
1.6358.....	K92890	2.....	R50400	2.1Be 0.5Co Copper.....	C82500
1.6359.....	K92890	2.....	S34723	2.4Be 0.5Co Copper.....	C82600
1.6522.....	G86200	2.....	S44023	2.7Be 0.5Co Copper.....	C82800
1.6545.....	G86300	2.....	S64005 *	2.0Be 1.1Co Copper.....	C82510
1.6546.....	G86400	2.....	Z35540	2.5Be 1.2Ni Copper.....	C82700
1.6546.....	G87400	2.....	Z35541	2.5S Solder.....	L50150
1.6565.....	G43400	2 1/2% Alclad 7075.....	A87075	2.020.....	G10120
1.6565.....	K23080	2 1/2% Alclad One Side 7075.....	A87075	2.020.....	G10170
1.6582.....	G43370	2a.....	K12766	2.020.....	G10230
1.6582.....	G43400	2A.....	C92200	2.020.....	G10290
1.6657.....	G93106	2A.....	J03011	2.020.....	G10300
1.6907.....	S30451	2A.....	J93345	2.25Cr-1Mo-0.25V.....	K31830
1.6947.....	K91283	2A.....	K12765	2.0040.....	C10200
1.7006.....	H51500	2Al-2.5Sn.....	R54520	2.0076.....	C12000
1.7016.....	G51150	2A Solder.....	L54210	2.0090.....	C11000
1.7016.....	G51170	2b.....	F41003	2.0090.....	C12100
1.7033.....	G51320	2B.....	C92300	2.0220.....	C21000
1.7033.....	H51320	2 Babbitt.....	L13890	2.0230.....	C22000
1.7034.....	G51350	2B Solder.....	L54211	2.0240.....	C23000
1.7034.....	H51350	2B Solder.....	L54905	2.0250.....	C26000
1.7035.....	G51400	2C10.....	G10100	2.0265.....	C26000
1.7035.....	H51400	2C15.....	G10150	2.0280.....	C26200
1.7108.....	G92620	2C22.....	G10200	2.0285.....	A91080
1.7131.....	G51150	2C22.....	G10230	2.0321.....	C27400
1.7147.....	G51200	2C25.....	G10250	2.0331.....	C34500
1.7147.....	G51550	2C30.....	G10300	2.0332.....	C34900 *
1.7176.....	G51600	2C35.....	G10350	2.0335.....	C27000
1.7218.....	G41300	2C35.....	G10380	2.0360.....	C28000
1.7220.....	G41350	2C40.....	G10400	2.0380.....	C37800 *
1.7220.....	G41370	2C45.....	G10450	2.0401.....	C38000
1.7225.....	G41400	2C50.....	G10490	2.0460.....	C68700
1.7225.....	G41420	2C50.....	G10500	2.0872.....	C70600
1.7225.....	H41400	2C55.....	G10550	2.0882.....	C71500
1.7228.....	G41500	2C60.....	G10600	2.0966.....	C63000

2.1050	C91600	2.4636	N07500	2.4982	N07500
2.1096	C92200	2.4639	N06003	2.4983	N07500
2.4050	N02270	2.4641	N08221	2.4989	R30816
2.4050	N02290	2.4642	N06690	3	C17510
2.4051	N02270	2.4643	N06690	3	F41004
2.4051	N02290	2.4646	N07214	3	G46200
2.4052	N02270	2.4648	N06082	3	K05001
2.4052	N02290	2.4650	N07263	3	K11511
2.4053	N02270	2.4651	N06082	3	K12042
2.4053	N02290	2.4652	N07080	3	K12045
2.4060	N02200	2.4654	N07001	3	K13047
2.4060	N02270	2.4658	N06008	3	K14507
2.4060	N02290	2.4660	N08020	3	K14542
2.4061	N02201	2.4662	N09901	3	K19965
2.4061	N02205	2.4663	N06617	3	K22773
2.4061	N02270	2.4665	N06002	3	K22878
2.4061	N02290	2.4666	N07500	3	K31918
2.4062	N02270	2.4668	N07718	3	K32800
2.4062	N02290	2.4669	N07069	3	K44045
2.4066	N02200	2.4669	N07750	3	K44220
2.4066	N02230	2.4669	N07751	3	L13840
2.4066	N02270	2.4670	N07702	3	L13963
2.4066	N02290	2.4672	N07263	3	N02253
2.4068	N02201	2.4673	N13100	3	N02270
2.4068	N02220	2.4674	N13100	3	N14076
2.4068	N02230	2.4675	N06030	3	R50550
2.4068	N02233	2.4685	N10001	3	S50100
2.4116	N02211	2.4686	N06455	3	Z33520
2.4155	N02061	2.4686	N06635	3	Z33521
2.4170	N02100	2.4692	N19909	3-2.5	R56320
2.4360	N04400	2.4693	N19907	3-8-6-4-4	R58640
2.4361	N04400	2.4694	N07751	3a	K12042
2.4365	N24130	2.4710	N10624	3a	K12045
2.4366	N04400	2.4711	R30003	3A	C93700
2.4373	N05500	2.4733	N06230	3A	J04002
2.4373	N05502	2.4772	N07263	3A	J93371
2.4375	N05500	2.4775	R30001	3A	K11430
2.4375	N05502	2.4800	N10001	3A	K14557
2.4377	N04060	2.4803	N07092	3Al-2.5Sn	R56320
2.4416	N02211	2.4806	N06082	3Al-2.5V-0.05Pd	R56322
2.4475	N14052	2.4808	N06003	3Al-2.5V-Ru	R56323
2.4478	N14052	2.4810	N10001	3Al-13V-11Cr	R58010
2.4480	N14052	2.4816	N06040	3B	C93200
2.4537	N10002	2.4816	N06600	3B	K12244
2.4557	N06001	2.4817	N06600	3 Babbitt	L13840
2.4600	N10675	2.4817	N06602	3B Solder	L54815
2.4602	N06022	2.4819	N10002	3C	C82200
2.4602	N10002	2.4819	N10276	3C	C93500
2.4602	N26022	2.4831	N06625	3C22	G10230
2.4603	N06002	2.4839	N06455	3C25	G10250
2.4603	N06030	2.4851	N06601	3C30	G10300
2.4605	N06001	2.4854	N08120	3C35	G10350
2.4605	N06059	2.4855	N06219	3C40	G10400
2.4606	N06002	2.4856	N06625	3C45	G10490
2.4606	N06686	2.4856	N06626	3C50	G10500
2.4608	N06333	2.4858	N08825	3C55	G10550
2.4610	N06455	2.4867	N06004	3C60	G10640
2.4610	N26455	2.4869	N06003	3CD5	G10050
2.4611	N06455	2.4869	N06075	3CD6	G10060
2.4612	N06455	2.4880	N12160	3CD8	G10080
2.4613	N06002	2.4882	N10001	3CD12	G10100
2.4615	N10665	2.4882	N30007	3CD20	G10200
2.4617	N10665	2.4883	N30107	3CD25	G10250
2.4618	N06007	2.4916	N07252	3CD30	G10300
2.4619	N06985	2.4951	N06075	3CD35	G10350
2.4620	N06082	2.4952	N07080	3Ch2W8F	T20821
2.4621	N06625	2.4964	R30605	3Ch3M3F	T20810
2.4622	N06985	2.4967	R30605	3Cr13	S42000
2.4623	N06985	2.4968	N07090	3CR	G10080
2.4626	N06601	2.4969	N07090	3CR12	S41003
2.4627	N06617	2.4970	N06010	3CS	G10080
2.4628	N06617	2.4973	N07041	3-C Special	T30405
2.4630	N06075	2.4975	N09901	3D	C93800
2.4631	N07080	2.4979	R30021	3E	C94400
2.4632	N07090	2.4982	N07001	3H2W8F	T20821
2.4633	N06025	2.4982	N07263	3H3M3F	T20810

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3HR.....	G10080	3.4364.....	A97075	4S14.....	G10120
3HS.....	G10080	3.4365.....	A97075	4S14.....	G10160
3L44.....	A95050	3.4374.....	A87075	4.014.....	G10120
3L.122.....	M11810	3.4377.....	A87475	4.014.....	G10190
3L.124.....	M11918	3.4384.....	A97475	4.014.....	G10220
3L.125.....	M11918	3.4394.....	A97010	5-2-2-4-4-0.1.....	R58650
3N1B.....	W80001	3.5101.....	M16410	5.....	F41006
3N1C.....	W80002	3.5103.....	M12331	5.....	J12540
3 Pewter.....	L13963	3.5106.....	M18220	5.....	K01507
3R12.....	S30400	3.5312.....	M11311	5.....	K11625
3R12.....	S30403	3.5612.....	M11610	5.....	K24245
3R19.....	S30453	3.5812.....	M11800	5.....	K24562
3R60.....	S31603	3.6204.....	M12331	5.....	K32800
3R64.....	S31703	3.7024.....	R50250	5.....	K33125
3R65.....	S31603	3.7025.....	R50250	5.....	K41545
3R69.....	S31635	3.7031.....	R52550	5.....	K42348
3RE60.....	S31500	3.7034.....	R50400	5.....	K42365
3S.....	A93103	3.7035.....	R50400	5.....	K42885
3S61.....	S41000	3.7055.....	R50550	5.....	R56400
3S62.....	S42000	3.7064.....	R50550	5.....	R56401
3TS.....	G10150	3.7065.....	R50700	5.....	S41600
3V.....	K31830	3.7105.....	R53400	5.....	S50100
3.052.....	G10120	3.7114.....	R54520	5.....	S50200
3.0205.....	A91200	3.7114.....	R54620	5.....	Z35530
3.0255.....	A91050	3.7134.....	R54810	5.....	Z35531
3.0257.....	A91350	3.7144.....	R54620	5-2-2-4-4.....	R58650
3.0275.....	A91070	3.7164.....	R56400	5-2.5.....	R54520
3.0285.....	A91080	3.7165.....	R56400	5-2.5.....	R54521
3.0505.....	A93105	3.7174.....	R56620	5/95 Solder.....	L54320
3.0515.....	A93103	3.7195.....	R56320	5a.....	K42365
3.0517.....	A93003	3.7225.....	R52250	5A.....	C84400
3.0525.....	A93005	3.7255.....	R52400	5A.....	J93404
3.0526.....	A93004	4.....	F41005	5Al-1Sn-1V-1Zr-1Mo.....	R55111
3.0615.....	A96012	4.....	G86200	5Al-2.5Sn.....	R54520
3.1124.....	A92117	4.....	J13047	5Al-2.5SnELI.....	R54521
3.1254.....	A92014	4.....	K01507	5Al-5Sn-5Zr.....	R54550 *
3.1255.....	A92014	4.....	K03017	5A Solder.....	L54320
3.1305.....	A92117	4.....	K11267	5B.....	C84800
3.1324.....	A92017	4.....	K11662	5B.....	N05500
3.1325.....	A92017	4.....	K14510	5BQ.....	S41600
3.1354.....	A92024	4.....	K19990	5b Solder.....	L54610
3.1355.....	A92024	4.....	K22375 *	5B Solder.....	L54321
3.1364.....	A82024	4.....	K22878	5C.....	N04405
3.1645.....	A92007	4.....	K24245	5Ch3W3MFS.....	T41901
3.1655.....	A92011	4.....	K24562	5ChGM.....	T41902
3.1734.....	A02030	4.....	K32723	5ChGM.....	T51620
3.1734.....	A12420	4.....	K32800	5ChNM.....	T61206
3.1924.....	A92618	4.....	N14080	5ChW2S.....	T41901
3.2134.....	A03550	4.....	R04261	5Cr415H.....	G50150
3.2245.....	A94043	4.....	R50700	5Cr415H.....	G51150
3.2315.....	A96082	4a.....	K22375 *	5D.....	N05502
3.2364.....	A03560	4A.....	C83600	5E.....	K14248
3.2374.....	A13560	4A.....	C83800	5F.....	S41600
3.2384.....	A13570	4A.....	J92205	5-F.....	S41600
3.3206.....	A96060	4Al-3Mo-1V.....	R56430	5HNM.....	T61206
3.3206.....	A96063	4b.....	K22375 *	5HW2SF.....	T41901
3.3210.....	A96006	4B.....	C83600	5K.....	G10300
3.3211.....	A96061	4C54.....	S44600	5L37.....	A92017
3.3214.....	A96061	4Ch2WM5MF.....	T20814	5MnC420H.....	G51200
3.3315.....	A95005	4Ch3WMF.....	T41901	5N.....	J13052
3.3316.....	A95050	4Ch4WMFS.....	T20812	5NiCr180.....	S30400
3.3345.....	A95082	4Ch5MF1S.....	T20812	5R10.....	S30400
3.3354.....	A95056	4Ch5MFS.....	T20811	5R60.....	S31600
3.3523.....	A95052	4ChS.....	T41901	5R75.....	S31635
3.3524.....	A95052	4ChS.....	T51620	5RA50.....	S30300
3.3525.....	A95251	4ChW2S.....	T41901	5sp.....	G10300
3.3527.....	A95049	4CR.....	G10100	5S Solder.....	L50134
3.3535.....	A95754	4CS.....	G10100	5.5 Ag Solder.....	L50180
3.3537.....	A95454	4H5MF1S.....	T20813	6.....	F41007
3.3545.....	A95086	4H5MFS.....	T20811	6.....	J12073
3.3547.....	A95083	4HR.....	G10100	6.....	J13855
3.3555.....	A95056	4HS.....	G10100	6.....	K03006
3.4144.....	A97050	4N.....	J13047	6.....	K24245
3.4335.....	A97020	4N.....	K42343	6.....	K24562
3.4345.....	A97022	4S.....	A93004	6.....	K32800
3.4354.....	A97009	4S.....	A93105	6.....	K42885

6	R54520	7V	N07702	9ChWG	T31501
6	S41000	8	A83003	9Cr-1Mo-V-Cb-N	K91560 *
6-2-4-2	R54620	8	J11697	9D	C95500
6-2-4-6	R56260	8	J22090	9D AL Bronze	C95500
6-4	R56400	8	K14248	9E	C95600
6-4	R56401	8	K23010	9F	C95700
6-4 ELI	R56400	8	K24562	9KH9.50	N06010
6-5-2	T12001	8	K42348	9Q	J23055
6-6-2	R56620	8	K42885	9RU10	S17700
6-6-2	T11302	8	K44220	9.021	G10230
6-7	R56700	8	K81340	10	C17500
6A	C82500	8	R56620	10	C82500
6A	J93380	8	S30400	10	G10100
6A	N04401	8-1-1	R54810	10	J22090
6Al-1.7Fe	R54624 *	8-2-N Cobalt	T11330	10	J23015
6Al-4V	R56400	8-2-N Cobalt 8	T11333	10	K23205
6Al-4V	R56406	8A	K42348	10	N02225
6Al-4V ELI	R56401	8A	S30400	10	R58030
6Al-4V ELI	R56402	8Al-1Mo-1V	R54810	10	S38400
6Al-4V ELI	R56407	8B	C86200	10	S63014 *
6Al-4V-Pd	R56404	8C	C86300	10	T30111
6Al-4V-Ru	R56404	8C	S34700	10/90 Solder	L54520
6Al-6V-2Sn	R56620	8CA	S34700	10% Aluminum Bronze	C95300
6B	C85400	8Ch6W3MFS	T30108	10A	C93700
6B Solder	L54555	8Cr170	S43000	10AlCr240	S44600
6C	C85700	8F	S30300	10B	N06003
6C27	S42000	8F	S30323	10B Solder	L54520
6ChW2S	T41901	8FA	S30300	10C	C82000
6ChWG	T31501	8FA	S30323	10Ch12NDL	S41400
6F	S41000	8LN	S30453	10Ch17N13M2T	S31635
6F	S41600	8LNA	S30453	10Ch23N18	S31008
6F	S41623	8M	S31600	10Cr130	S41000
6L25	A92218	8MA	S31600	10CrMo9-10	K21590
6N	J13512	8MLCuN	S31254	10CS	G10100
6P10	G10080	8MLCuNA	S31254	10E	G10100
6P20	G10080	8MLN	S31653	10F	G10100
6R35	S32100	8MLNA	S31653	10G2	G10100
6R35	S32109	8Mn	R56080	10G2	G10110
6V	N07500	8MN	S31651	10HF-1.0Ti	R04295
6.0 Al-4.0V	R56400	8MNA	S31651	10Kh23N18	S31009
7	A83003	8N	J22091	10kp	G10080
7	G41400	8N	S30451	10kp	G10100
7	J12084	8NA	S30451	10kp	G10120
7	K21903	8P	S30500	10N	J23015
7	K24245	8PA	S30500	10N	S63015 *
7	K24562	8Q	J14049	10NC180	S30200
7	K42343	8R	S20910	10RE51	S32900
7	K42885	8R40	S34700	10sp	G10100
7	L53585	8R40H	S34709	10sp	G10120
7	R52400	8RA	S20910	10TiAlCrNi320	N08332
7	R52401	8RE10	S31008	10TiAlCrNi320	N08810
7	S50300 *	8RE18	S30908	10TiNiCr180	S32100
7	Z33522	8RE18	S30909	10V-2Fe-3Al	R56410
7	Z33523	8S	S21800	10W-2.5Zr	R04271
7-4	R56740	8SA	S21800	10X	G10100
7A	C86400	8 Solder	L53565	10X11	L13870
7A	K42343	8T	S32100	11	A83003
7Al-2Cb-1Ta	R56210 *	8TA	S32100	11	J12082
7Al-4Mo	R56740	8TiCr170	S43036	11	K11789
7Al Bronze	C61400	8.5	C65100	11	K42598
7Al Bronze, with Tin	C61300	9	J13345	11	L13870
7AlCr130	S40500	9	J21610	11	N02220
7B	K42343	9	K22035	11	R52250
7ChG2WM	T30106	9	K90941	11	R52401
7M	G41400	9	R30155	11-5-2-1	R54790
7Mo	S32900	9	R56320	11% Aluminum Bronze	C62400
7Mo Plus	S32950	9	S50400 *	11% Aluminum Bronze	C95400
7NbNC180	S34700	9% Aluminum Bronze	C95200	11A	C97600
7NC180	S30400	9% Nickel Steel	K81340	11B	C97800
7Q	J13045	9A	C92500	11B	N07750
7RE10	S31008	9B	C95300	11 Babbitt	L13870
7RE10	S31009	9B	N14052	11 Brazing Sheet	A83003
7S1B	G10300	9B Solder	L54250	11C	K11572
7S1C	G10350	9C	C95400	11F	N08825
7 Solder	L53585	9C AL Bronze	C95400	11H	N08330
7TNC180	S32100	9ChF	T61202	11I	N08800

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11JuA.....	G10100	14-4PH.....	J92240	16MnCr5.....	G51150
11kp.....	G10100	14-8Mo.....	S14800	16MnCr5KD.....	G51150
11L.....	G10550	14A.....	N06455	16NC6.....	G43200
11L37.....	G11374	14B.....	N10002	16NC6.....	H43200
11Mn.....	G10100	14C.....	C82200	16q.....	G10150
11Mn.....	G10110	14Ch17N2.....	S43100	16S.....	A92117
11N.....	N06004	14Ch18N4G4L.....	S20100	17.....	C82500
11N.....	N06601	14Ch18N4G4L.....	S20200	17.....	R52252
11Q.....	J12094	14CrNi6.....	G43200	17-4.....	J92150 *
11R51.....	S30100	14CrNi6.....	H43200	17-4.....	J92200
11SMn28.....	G12130	14D.....	N06002	17-4.....	S17400
11 Special Alloy.....	T72301	14G.....	G10120	17-4PH.....	J92200
11YuA.....	G10100	14G.....	G10160	17-4PH.....	S17400
12.....	J22000	14-Karat Yellow Gold.....	P00032	17-4PH.....	S17480
12.....	J80490 *	14kp.....	G10150	17-4PH.....	W37410
12.....	K11757	14Mn.....	G10160	17-4PH.....	W37440
12.....	K51255	14Q.....	J13051	17-7PH.....	S17700
12.....	R53400	15.....	G10150	17-7PH.....	S17780
12.....	R53401	15.....	G10160	17-14-4LN.....	S31726
12%Cr.....	F45004	15.....	G10170	17-22(S).....	K23015
12% Leaded Nickel Silver.....	C97300	15.....	L53620	17-22A.....	K14675
12% Nickel Silver.....	C75720 *	15.....	R53415	17-22A/S.....	K23015
12A.....	N19903	15-3-3-3.....	R58153	17-22A(V).....	K22770
12B.....	K94610	15-5.....	S15500	17Cr3.....	G50150
12 Brazing Sheet.....	A83003	15-5PH.....	J92110	17Cr3.....	G51150
12Ch17.....	S43000	15-5PH.....	S15500	17Cr-4Ni.....	S17400
12Ch18N10E.....	S30300	15-7Mo.....	S15700	17Cr-7Ni.....	S17700
12Ch18N10T.....	S32109	15-15LC.....	S21300 *	17CrNi16.....	G43200
12Ch18N9.....	S30200	15/85 Solder.....	L54560	17CrNi16.....	H43200
12Cr3.....	G50150	15% Antimonial Lead.....	L53550	17CS.....	G10150
12Cr3.....	G51150	15%Cr-Mo.....	F45005	17CS.....	G10160
12Cr-Al.....	S40500	15% Tin Bronze.....	C91000	17CS.....	G10170
12CrMo19-5.....	K41545	15A.....	J19966	17GS.....	G10190
12CS.....	G10120	15B.....	L54560	17HS.....	G10170
12HS.....	G10120	15B21H.....	H15211	17Mn4KK.....	G10190
12K.....	G10090	15B35H.....	H15351	17Mn4KKW.....	G10190
12K.....	G10120	15B37H.....	H15371	17Mn4KW.....	G10190
12Kh13.....	S40300	15B41H.....	H15411	17MnCr10.....	G51150
12Kh13.....	S41000	15B48H.....	H15481	17S.....	A92017
12Kh18N10E.....	S30323	15B62H.....	H15621	18.....	K92820
12Kh18N10T.....	S32109	15Ch17AG14.....	S20500	18.....	R56322
12Kh18N19.....	S30200	15CLGM.....	G10160	18-2.....	S44400
12L13.....	G12134	15Cr2.....	G50150	18-2-12.....	S24100
12L14.....	G12144	15Cr2.....	G51150	18-2FM.....	S18200
12MSMoNC10.....	S31600	15Cr-5Ni.....	S15500	18-2Mn.....	S24100
12N.....	N06004	15Cr9.....	G10150	18-3-12.....	S24000
12NiCr250.....	S31008	15Cr9.....	G51150	18-3Mn.....	S24000
12Q.....	J15048	15CrNi6.....	G43200	18-4-1.....	T12001
12R10.....	S30200	15CrNi6.....	H43200	18-4Mn.....	S24080
12R11.....	S30100	15F.....	G10150	18-4Mn.....	W32440
12SiCrNi360.....	N08330	15G.....	G10160	18-5-11.....	W32410
12TiNiCr180.....	S32100	15GA.....	G10160	18-8Mo.....	S31600
12X.....	G10120	15GF.....	G10160	18-8Ti.....	S32100
13.....	A04130	15GJ.....	G10160	18-9-LW.....	S30430
13.....	A86951	15H.....	G50150	18-10 B4.....	S30464
13.....	C51000	15H.....	G51150	18-15.....	S30600
13.....	J13080	15kp.....	G10150	18-15LCSi.....	S30600
13.....	K13051	15LB.....	G10150	18-17LC.....	S30601
13.....	L53345	15LM.....	G10740	18-18-2.....	S38100
13.....	L53346	15SiNiCr200.....	S30900	18-18 Plus.....	S28200
13.....	R53413	15SiNiCr250.....	S31000	18A.....	G10170
13-8Mo.....	S13800	15SiNiCr250.....	S31400	18Cr-2Mo.....	S44400
13-11-3.....	R58010	15X.....	G10150	18Cr-2Ni-12Mn.....	S24100
13% Aluminum Bronze.....	C95900	15Y.....	G10150	18Cr3.....	G50150
13A.....	C87400	15YuA.....	G10150	18Cr3.....	G51150
13A.....	N10001	16.....	J31200	18CrCb.....	S44100 *
13B.....	C87500	16.....	K14072	18Cr-CbHF.....	S44100 *
13Ch.....	T72305	16.....	L52860	18Gps.....	G10190
13Cr-4Ni.....	S41500	16.....	R52402	18Gsp.....	G10190
13CrMo44.....	K11562	16-8-2.....	W36840	18HG.....	G51200
13CrMo44.....	K11597	16-8-2-H.....	S16800	18Ju.....	G10200
13Q.....	J12048	16 Class A.....	J31200	18K.....	G10180
14.....	A86951	16CuMoNiCr200B.....	N08904	18kp.....	G10170
14.....	C17510	16K.....	G10160	18MnCr11.....	G51150
14.....	J15580	16MC4.....	G51150	18MnCr11q.....	G51150
14.....	R53414	16ML5.....	G51150	18Ni (200) Maraging.....	K92820

18Ni (250) Maraging.....	K92890	20N2M.....	G46200	25.....	R30605
18Ni (300) Maraging.....	K93120	20NCD2.....	G86200	25.....	R56403
18 Ni Maraging Steel.....	K92890	20NCD7.....	G43200	25-4-4.....	S44635
18ps.....	G10180	20NiCrMo2KD.....	G86200	25-6-1LN.....	S31200
18sp.....	G10180	20NiCrMo7.....	G43200	25-6Mo.....	N08926
18Yu.....	G10200	20ps.....	G10200	25/75 Solder.....	L54720
19.....	C87200 *	20 Solder.....	L54712	25% Lead Nickel Silver.....	C97800
19.....	C87300	20Y.....	G10200	25% Nickel Silver.....	C97800
19.....	K92890	20YuA.....	G10200	25A Solder.....	L54720
19.....	L54510	21.....	A86951	25B Solder.....	L54721
19.....	R58640	21.....	C86300	25CD4.....	G41300
19-9DL.....	J92843	21.....	K23477	25CrMo4.....	G41300
19-9DL.....	S63198	21.....	K31545	25C Solder.....	L54722
19-9DX.....	S63199	21.....	R58210	25G.....	G10260
19-9 High Carbon.....	S30884	21-2N.....	S63012	25K.....	G10260
19-9Mo Low Carbon.....	S30886	21-4N.....	S63008	25L.....	G10250
19-9 W-Mo.....	S63199	21-4N+Nb+W.....	S63019	25L-I.....	G10260
19-9 W-Mo.....	W34910	21-4NB.....	S63019	25L-II.....	G10250
19D.....	S32001	21-6-9.....	S21900	25L-III.....	G10260
19G2.....	G10220	21-6-9.....	S21904	25L-III.....	G10260
19Mn.....	G10220	21-6-9.....	S21980	25ps.....	G10250
19Mn5.....	G10220	21-6-9.....	W32310	25.22.2.....	S31050
19Mn5KKW.....	G10220	21-6-9.....	W32340	26.....	C90300
19Mn5KW.....	G10220	21-6-9LC.....	S21904	26.....	R52404
20.....	F11401	21-12.....	S63016 *	26-1.....	S44626
20.....	G10200	21-12N.....	S63017	26-1Ti.....	S44626
20.....	K93120	21-55N.....	S63007 *	26-3-3.....	S44660
20.....	R30006	21B3.....	G10210	26MoCr11.....	G41300
20.....	R30106	21 Brazing Sheet.....	A86951	27.....	R52254
20.....	R58645	21C.....	C82510	27-7Mo.....	S31277
20-25-6.....	N08925	21Cr-6Ni-9Mn.....	S21904	28-2-3.5.....	S32803
20-45-5.....	N08245 *	21Mn4.....	G10220	28.....	R56323
20-75BTYU.....	N07080	21NiCrMo2.....	G86200	28-4Mn.....	S23980
20%Cr-Mo.....	F45007	22.....	A86951	28C4.....	G51300
20% Lead Nickel Silver.....	C97600	22.....	C95300	28S.....	A92011
20% Nickel Silver.....	C97600	22.....	K21590	29.....	K94610
20% Tin Solder.....	L54710	22.....	K24070	29.....	R56404
20A.....	G10200	22.....	N06022	29-4.....	S44700
20B Solder.....	L54711	22.....	R30103 *	29-4-2.....	S44800
20C.....	C82500	22-10-5.....	S20980	29-4-2C.....	S44736 *
20C.....	G10950	22-10-5.....	W32210	29-4C.....	S44735
20Cb3.....	N08020	22-10-5.....	W32240	29-9.....	S64299
20Cb3.....	W88021	22-13-5.....	S20910	29-17.....	K94610
20Cb3 Mod.....	N08321	22/5.....	S31803	29Cr-4Mo.....	S44700
20Ch13.....	S42000	22B.....	K21390	30.....	C50700
20Ch13.....	S42010	22B.....	K21590	30.....	F12101
20Ch23N13.....	S30908	22 Brazing Sheet.....	A86951	30.....	G10300
20Ch25N20S2.....	S31400	22C.....	K21390	30.....	K02502
20ChN2M.....	G43200	22C5.....	G10230	30.....	N08800
20C Solder.....	L54712	22Cr-13Ni-5Mn.....	S20910	30.....	R53530
20CT.....	C82500	22D.....	K21390	30/70 Solder.....	L54820 *
20F.....	G10200	22g.....	G10210	30/70 Solder.....	L54822
20g.....	G10200	22g.....	G10230	30A Solder.....	L54820 *
20G.....	G10220	22HS.....	G10200	30B Solder.....	L54821
20GSL.....	G10220	22HS.....	G10230	30CD4.....	G41300
20HM.....	G41300	22K.....	G10230	30Ch.....	G51300
20Ju.....	G10200	22K.....	G10260	30Ch13.....	S42000
20K.....	G10200	22L.....	K21590	30ChM.....	G41300
20Kh20N14S2.....	S30900	22NiCr170.....	S43100	30Cr130.....	S42020
20Kh23N18.....	S31000	22.12.HT.....	W30816	30CrMo4.....	G41300
20Kh25N20S2.....	S31400	23.....	A86951	30CrMoV12.27KU.....	T20810
20kp.....	G10200	23.....	C95400	30CrMoV12-11.....	T20810
20L.....	G10210	23.....	K24728	30CS.....	G10300
20L-II.....	G10210	23.....	N02270	30C Solder.....	L54822
20L-III.....	G10210	23.....	N08020	30G.....	G10300
20M5.....	G10220	23.....	R30021	30GS.....	G10290
20MC5.....	G51200	23.....	R56407	30HM.....	G41300
20Mn.....	G10220	23-8N.....	S63018	30HS.....	G10300
20Mn4.....	G10220	24.....	A86951	30L.....	G10300
20Mn5.....	G10220	24.....	R56405	30L-II.....	G10300
20Mn10.....	G10220	24S.....	A92024	30L-III.....	G10300
20MnCr12.....	G51200	25.....	C17200	30MnCrTi5.....	G51300
20Mo4.....	N08024	25.....	C83600	30NCD2.....	G86300
20Mo6.....	N08026	25.....	F11701	30NiCrMo2KB.....	G86300
20Mo-6HS.....	N08036	25.....	G10250	30NiCrMo22.....	G86300
20 Mod.....	N08320	25.....	G10260		

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30VCrW85	T20821	35NCD6	G43400	42CrMo4	G41400
31	K32550	35NiCrMo6KB	G43370	42CrMo4	G41420
31	N08031	35NiCrMo6KB	G43400	42CrMo4KD	G41400
31	R30031	36	K02502	42MnMo7	G40370
31	R53532	36	K93600	42MnMo7	G40420
31H	N08810	36%Ni Steel	K93601	42MnV7	G13400
31HT	N08811	36%Ni Steel	K93602	42MoCr11q	G41400
31Mn4	G10330	36CrMn4	G51350	42MoCr11q	G41420
31VMoCr29	T20810	36CrMn4	H51350	42Ni-56.5Fe	K94101
32	K44220	36NChTJu8M	N09027	42NKHTYu	N09902
32	R55111	36VSiMoCr53	T20812	43	A04430
32C4	G51320	37C	G10120	43	A14430
32C4	H51320	37Cr4	G51350	43	A24430
32M5	G10330	37Cr4	H51350	43BV12	K21028
33	K02502	38	A02950	43F35	G10100
33	K14394	38	A02952	43.5-13	C77600
33	R20033	38-6-44	R58640	44	A86951
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33-25	C17300	38ChM	G41400	44.5Cb	R58450
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34	A02221 *	38Cr4KB	H51350	45	F13101
34	R53445	38CrMo4KB	G41400	45	F13102
34CD4	G41350	38CrMo4KB	G41420	45	G10450
34CD4	G41370	38EP	G10080	45	K02507
34Cr4	G51320	38HM	G41400	45/55 Solder	L54950
34Cr4	H51320	38HM	G41420	45A Solder	L54950
34CrKB	G51320	38HN2MA	G43370	45B Solder	L54951
34CrKB	H51320	38HN2MA	G43400	45Cb	R58450
34CrMo4	G41350	39	A02420	45Cr2	G50460
34CrMo4	G41370	39CrNiMo8	G43370	45D	J93345
34CrMo4KB	G41350	39CrNiMo8	G43400	45MF4	G11410
34CrMo4KB	G41370	39VSiMoCr52	T20811	45MF6	G11440
34CrMo4KD	G41350	40	F12803	45N+	S32205
34CrMo4KD	G41370	40	G10400	45S20	G11440
34CrMo11	G41350	40	K02502	45SiCr90	S65007
34CrMo11	G41370	40	R50400	45TM	N06045
34CrNiMo6	G43370	40/60 Solder	L54915	45VSiCrW20	T41901
34CrNiMo6	G43400	40A Solder	L54915	45WCrV7	T41901
34CrNiMo8	G43370	40B Solder	L54916	45WCrV8	T41901
34CrNiMo8	G43400	40ChN	G31400	45WCrV8KU	T41901
34GS	G10300	40Cr10	G51400	46	K94600
34L-II	G10350	40Cr10	H51400	46Cr1KD	G50460
34MoCr11q	G41350	40CS	G10350	46F40	G10100
34MoCr11q	G41370	40C Solder	L54918	46Fe-32Ni	N08151
34MoCrNi6	G43370	40E	A07120	48	K94800
34MoCrNi6	G43400	40F30	G10100	49K2F	R30005
34MoCrNi16q	G43370	40H	G51400	49K2FA	R30005
34MoCrNi16q	G43400	40H	H51400	49KF	R30005
35	A04430	40H9S2	S65007	50	F13501
35	A04431	40KChNM	R30003	50	F13502
35	F12401	40NCD2	G86400	50	G10490
35	G10350	40NCD2	G87400	50	G10500
35	G10380	40NiCrMo2	G86400	50	M11630
35/65 Solder	L54850	40NiCrMo2	G87400	50-1	K02303
35A Solder	L54850	40NiCrMo2KD	G87400	50-2	K02304
35B	C82200	40NiCrMo6	G43400	50-3	K02305
35B3DF	G10350	40NiCrMo7	G43400	50-4	K02306
35B Solder	L54851	40NiCrMo22	G86400	50/50	R20500
35C	C82200	40NKHMV	R30004	50/50 Solder	L55030
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35CrNiMoKD	G43400	41	N07041	50B40	G50401
35C Solder	L54852	41Cr4	G51400	50B40H	H50401
35H	G51320	41Cr4	H51400	50B44	G50441
35H	H51320	41Cr4KB	G51400	50B44H	H50441
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35HML	G41370	41CrMo4	G41400	50B50H	H50501
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35MLS	G40370	42C4	H51400	50ChGA	G51550
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50CV4.....	G61500	60SiCr8.....	G92620	78 Metal.....	C84500
50F45.....	G10100	60Si5A.....	G92620	79-16-5.....	C92900
50HFA.....	G61500	60Zn-40Cd Solder.....	Z50980	79S.....	A97022
50HGFA.....	G61500	61.....	S35000	80.....	C16200
50HS.....	G10450	61-80.....	K06100	80.....	F15501
50KF.....	R30005	61SC7.....	G92620	80.....	K12001
50N.....	N14052	62.....	N06062	80.....	N07080
50Ni-50Fe.....	K95000	62.....	S17700	80-5-2-13.....	C84200
50NP.....	N14052	63.....	S15700	80-10-10.....	C93700
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50VMnCr11.....	G61500	63B Solder.....	L13631	80-60-03.....	F34100
50Zn-50Sn Solder.....	Z56900	64.....	S35500	80/20 Copper Nickel.....	C71000
51.....	S41001	65.....	K02403	80/20 Copper Nickel.....	C96300
51B60.....	G51601	65.....	K02404	80A.....	N07080
51B60H.....	H51601	65.....	K02800	80Cu-16Sn-5Pb.....	C93800
51CrV4.....	G61500	65.....	K12001	80Cu-19Sn.....	C91300
51VCr11A.....	G61500	65-10.....	C74500	80MoCrV42-16.....	T11350
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52CB.....	K18597	65-18.....	C75200	81-3-7-9.....	C84400
52N.....	N14052	65-35.....	J03002	81-7-12.....	C93600
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55.....	F13801	65/30 Nickel Copper D.....	N24025	81 Metal.....	C84400
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55.....	K01800	65K Mn Brz.....	C86500	83-4-6-7.....	C83800
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55.....	K02202 *	65Ni-15Cr.....	N06004	84-8-8.....	C93400
55.....	K02507	65S.....	A96061	84-16.....	C91100
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55-18.....	C77000	68F62.....	G10100	85.....	C16200
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55C3.....	G51600	70.....	F14801	85-5-9-1.....	C93500
55Cr3.....	G51550	70.....	J03503	85-15 Tin Bronze.....	C91000
55Cr3.....	G51600	70.....	K02700	85Ag-15Mn.....	P07850
55H20G9AN4.....	S63008	70.....	K02701	85Cu-15Zn.....	C23000
55NCDV7.....	T61206	70.....	K03101	85H.....	S30615
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55NiCrMoV7.....	T61206	70.....	R50700	85Zn-15Al.....	Z30700
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55Si8.....	G92550	70-36.....	J03501	86B30H.....	H86301
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55WC20.....	T41901	70/30 Arsenical Brass.....	C32510 *	86B45H.....	H86451
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56S.....	A95056	70/30 Copper Nickel.....	C71520	87-10-1-2.....	C92600
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57S.....	A95052	70B Solder.....	L13701	88-10-2.....	C90500
58.....	K02301	70C.....	C81400	88-10-2-0.....	C92700
59.....	N06059	70 Manganese.....	C86500	88-10-2 Solder.....	L54525
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60.....	F14102	71-5-24.....	C94300	88-12 Tin.....	C90800
60.....	G10600	72.....	K92940	89-11 Gear Bronze.....	C90700
60.....	G10640	72.....	N06072	89-11 Tin.....	C90700
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60-30.....	J03000	73-7-20.....	C94500	90/10 Copper Nickel.....	C70600
60-40-18.....	F32800	74.....	C19600 *	90/10 Copper Nickel.....	C70610
60-40 Brass, 1% leaded.....	C89520	74.....	K91930	90/10 Copper Nickel.....	C70620
60/40 Brass, 2% Leaded.....	C37710	75.....	K91940	90/10 Copper Nickel.....	C96200
60A Solder.....	L13600	75.....	N06075	90 Manganese.....	C86200
60B Solder.....	L13601	75F70.....	G10100	90MnCrV8.....	T31502
60Cr-40Ni.....	R20600	75Ni-20Cr.....	W86003 *	90MnV8.....	T31502
60F55.....	G10100	75S.....	A97075	90MnVCr8KU.....	T31502
60G.....	G10600	75X1.....	N07750	90MnWCV8.....	T31501
60GA.....	G10640	76 Metal.....	C84800	90MV8.....	T31502
60MnCrTi4.....	G51500	77-6-16-1.....	C93900	90 Ta-10 W.....	R05255
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90Zn-10Al	Z31710	101	C10100	165	C17000
90Zn-10Cd Solder	Z50940	102	C10200	165C	C82400
91	K90901	102Cr6	T61203 *	165CT	C82400
91	S50460 *	103	C10200	166 HE	S31653
91E	A96101	104	C10400	170	C17000
94B15	G94151	105	C10500	170H15	G10160
94B15H	H94151	105-85	D50850	170.1	A01701
94B17	G94171	105-85	J31575 *	172	C17200
94B30	G94301	107	C10700	173	C17300
94B30H	H94301	107Cr3	T61202	173H16	G10150
94B40	G94401	107CrV3Ku	T61202	173H16	G10160
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95MnWCr5	T31501	108	C10800	175	C17500
95MnWCr5KU	T31501	110	C11000	175.1	C17510
95TA Solder	L13950	110 Manganese	C86300	176	C17600 *
95Zn-5Al	Z30503	111	C11100	177	C17700 *
95Zn-5Al Solder	Z30502	113	C11300	182	C18200
95Zn/5Al	Z31510	114	C11400	182	W86182
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96.5TS Solder	L13965	115	C83600	184	C18400
97NL	N03360	115 and Over	K07500	185	C18500 *
97.5Ta-2.5W	R05252	115CrV3	T61202	187	C18700
98BV40 Mod	K11940	116	C11600	188	R30188
98BV40 Mod	K24336	117	C11700	189	C18900
98Cu-1.9Be	C17200	117VCr6	T61202	190	C17200
98Zn-2Al Solder	Z30402	118	C97600	190	C19000
98.0 Zinc	Z19002	119/II/KB20FFKD	G10200	190	L54370
98.5 Zinc	Z18001 *	119/IV/C21KD	G10200	191	C19100
98.5 Zinc	Z18002	119WM	C89940	192	C19200
98.5 Zinc	Z18003	120	C12000	192	N04400
99U	M08990	120	C83800	194	C19400
99.5 Gold	P00025	120-90-02	F36200	194	C91300
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99.5 Zinc	Z16002 *	121	C12100	195	C19500
99.5 Zinc	Z16003	122	C12200	196	N04400
99.6 Zinc	Z16004	122.1	C12210	196	N10009
99.8 Lead	L52510	123	C12300	197	C91000
99.9 Zinc	Z15005	125	C12500	200	N02200
99.70	A91070	125	C84500	200A	N04400
99.70	C81100	127	C12700 *	200N	C92500
99.80	A91080	128	C12800 *	201	N02201
99.80 Palladium	P03980	129	C12900	201	S20100
99.80 Rhodium	P05980	130	C13000 *	201L	S20103
99.90 Rhodium	P05981	130	C84800	201LHN	S20153
99.90 Silver	P07020	130.1	A01301	201LN	S20153
99.90 Zinc	Z15001	131	C83300	201.0	A02010
99.95 Cadmium	L01950	135	K24065	201.2	A02012
99.95 Cadmium	L01951	135 Mod	K24065	202	S20200
99.95 Gold	P00020	138	A02380 *	202.0	A02020 *
99.95 Palladium	P03995	141	C14100 *	202.2	A02022 *
99.95 Platinum	P04995	141-360	G10120	203	S20300
99.95 Rhodium	P05982	142	A02420	203EZ	S20300
99.95 Silver	P07015	142	C14200	203.0	A02030
99.95 Zinc	Z14001 *	143	C14300	203.2	A02032
99.95 Zinc	Z14002	145	C14500	204	S20400
99.97Au	P00020	145.1	C14510	204A	N04400
99.97 Zinc	Z14051	145.2	C14520	204CU	S20430
99.99 Cadmium	L01971	147	C14700	204.0	A02040
99.99 Gold	P00015	147.1	C14710 *	204.2	A02042
99.99 Silver	P07010	147.2	C14720 *	205	C20500 *
99.99 Zinc	Z13002 *	150	C15000	205	C90700
99.99 Zinc	Z13003	150	F11701	205	N02205
99.99 Zinc	Z13006	150A	A92017	205	S20500
99.990 Zinc	Z13001	150M28	G13300	205Cr115	T30403
99.995 Cadmium	L01981	150.1	A01501	205N	C91600
99.995 Gold	P00010	153MA	S30415	206	C92700
99.995 Zinc	Z12001 *	155	C15500	206N	C92900
99.995 Zinc	Z12002	155	R30155	206.0	A02060
99.995 Zinc	Z12003	155MoVCr115	T30402	206.2	A02062
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100A	R50700	160.1	A01601	208.1	A02081 *
100Cr6	T61203 *	162	C16200	208.2	A02082 *
100CrMn6	K19195	162.1	C16210 *	210	C21000
100K Mn Brz	C86300	164	C16400 *	210	C90500

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212M36.....	G11400	280.....	C28000	304L.....	J92620
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218.....	S21800	296.0.....	A02960	304S15.....	S30400
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225.....	C90300	301S81.....	S17700	305.....	S30500
225.....	N02225	301.0.....	A03010	305S17.....	S30500
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2408.....	N07718	3074NA15H.....	N08811	4032.....	A94032
2412.....	N07090	3074NA16.....	N08825	4032.....	G40320
2417.....	S66286	3074NA18.....	N05500	4032H.....	H40320
2419.....	A92419	3074NA21.....	N06625	4037.....	G40370
2424.....	A92424	3075NA11.....	N02200	4037H.....	H40370
2507.....	S32750	3075NA13.....	N04400	4042.....	G40420
2519.....	A92519	3075NA14.....	N06600	4042-7.....	G40420
2520nv.....	S31008	3075NA15.....	N08800	4042H.....	H40420
2524.....	A92524	3075NA18.....	N05500	4043.....	A94043
2562.....	N08904	3076NA11.....	N02200	4043A.....	A94043
2564.....	N08007	3076NA13.....	N04400	4044.....	A94044
2570.....	S66286	3076NA14.....	N06600	4045.....	A94045
2584.....	N08028	3076NA15.....	N08800	4046.....	A94046
2618.....	A92618	3076NA15.....	N08810	4047.....	A94047
2618A.....	A92618	3076NA15H.....	N08811	4047.....	G40470
2662.....	N08904	3076NA16.....	N08825	4047A.....	A94047
2669.....	N07090	3076NA18.....	N05500	4047H.....	H40470
2670.....	N07090	3076NA21.....	N06625	4048.....	A94048 *
2710.....	T41901	3102.....	A93102	4063.....	G40630
2715.....	T11301	3103.....	A93103	4104.....	A94104
2722.....	T11302	3103A.....	A93103	4118.....	G41180
2723.....	T11336	3104.....	A93104	4118H.....	H41180
2730.....	T20821	3105.....	A93105	4120.....	G41200
2736.....	T11341	3105A.....	A93105	4121.....	G41210
2782.....	T11307	3105B.....	A93105	4130.....	G41300
2803Mo.....	S32803	3107.....	A93107	4130.....	J13048
2879.....	G10080	3111/7.....	G87400	4130.....	K13147
2881.....	T51603 *	3135.....	K22033	4130H.....	H41300
2882.....	T51606	3140.....	G31400	4130 Mod.....	J13046
2900.....	T72302	3203.....	A93203	4135.....	G41350
2952.....	N07718	3204.....	A93204	4135H.....	H41350
2961.....	N07718	3207.....	A93207	4137.....	G41370
2995.....	N08005	3207A.....	A93207	4137H.....	H41370
3002.....	A93002	3228NbCe.....	S33228	4140.....	G41400
3003.....	A93003	3303.....	A93303 *	4140.....	J14047
3004.....	A93004	3307.....	A93307	4140H.....	H41400
3004A.....	A93004	3310.....	G33106	4140 Mod.....	J14046
3005.....	A93005	3310.....	K44910	4140 Mod.....	K11546
3005A.....	A93005	3310-1.....	G33106	4142.....	G41420
3006.....	A93006 *	3335.....	T61202	4142H.....	H41420
3007.....	A93007	3381.....	T61206	4142H Mod.....	K11542
3008.....	A93008 *	3431.....	T20811	4145.....	A94145
3009.....	A93009	3432.....	T20812	4145.....	G41450

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4145H.....	H41450	4957-2.....	T72301	5132.....	G51320
4147.....	A94147	4957-3.....	T72301	5132H.....	H51320
4147.....	G41470	4957-4.....	T72301	5135.....	G51350
4147H.....	H41470	4957-5.....	T72301	5135H.....	H51350
4150.....	G41500	4957-6.....	T72301	5140.....	G51400
4150H.....	H41500	4957-10.....	T72302	5140H.....	H51400
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4161H.....	H41610	4957-13.....	T41901	5145H.....	H51450
4171.....	T12015	4957-14.....	T41901	5147.....	G51470
4201.....	T12001	4957-15.....	T41901	5147H.....	H51470
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4271.....	T12004	4957-19.....	T31501	5150.....	A95150
4275.....	T12005	4957-20.....	T30102	5150.....	G51500
4301.....	T11302	4957-21.....	T30402	5150H.....	H51500
4320.....	G43200	4957-22.....	T30403	5151.....	A95151
4320H.....	H43200	4957-24.....	T51604 *	5154.....	A95154
4330 Mod.....	J23260	4957-25.....	T51602 *	5154A.....	A95154
4330 Mod.....	K23080	4957-26.....	T51620	5154B.....	A95154
4330 Mod.-5.....	K23080	4957-H3.....	T51620	5155.....	G51550
4330V.....	K23080	4957-H4.....	T20810	5155H.....	H51550
4335M.....	J13432	4957-H5.....	T20811	5160.....	G51600
4335 Mod.....	K23477	4957-H6.....	T20813	5160H.....	H51600
4335 Mod.....	K33517	5005.....	A95005	5180.....	A95180
4335 Mod.-6.....	K23477	5005A.....	A95005	5182.....	A95182
4337.....	G43370	5006.....	A95006	5183.....	A95183
4340.....	G43400	5007.....	N13020	5186.....	A95186
4340.....	J24055	5010.....	A95010	5205.....	A95205
4340-7.....	G43400	5013.....	A95013 *	5210.....	A95210
4340H.....	H43400	5014.....	A92618	5249.....	A95249
4340M.....	K44220	5014.....	A95014 *	5250.....	A95250 *
4340 Mod.....	J23260	5015.....	G50150	5251.....	A95251
4340 Mod.....	J24060	5016.....	A95016	5251A.....	A95251
4343.....	A94343	5017.....	A95017	5252.....	A95252
4361.....	T11304	5018.....	A95018	5254.....	A95254
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4371.....	T11336	5021.....	A95021	5280.....	A95280 *
4373.....	T11341	5022.....	A95022	5283.....	A95283
4374.....	T11341	5023.....	A95023	5283A.....	A95283
4375.....	T11344 *	5025.....	A95025 *	5305.....	A95305
4419.....	G44190	5027.....	N07090	5310.....	A95310
4419H.....	H44190	5034.....	A95034 *	5349.....	A95349
4422.....	G44220	5039.....	A95039 *	5351.....	A95351
4427.....	G44270	5040.....	A95040	5352.....	A95352
4441.....	T11301	5042.....	A95042	5354.....	A95354
4442.....	T11307	5043.....	A95043	5356.....	A95356
4475.....	T11342	5046.....	G50460	5357.....	A95357 *
4475.....	T11343 *	5046H.....	H50460	5383.....	A95383
4520.....	G45200	5049.....	A95049	5449.....	A95449
4543.....	A94543 *	5050.....	A95050	5451.....	A95451
4565S.....	S34565	5050A.....	A95050	5454.....	A95454
4615.....	G46150	5050B.....	A95050	5456.....	A95456
4617.....	G46170	5051.....	A95051	5456A.....	A95456
4620.....	G46200	5051A.....	A95051	5457.....	A95457
4620.....	J12093	5052.....	A95052	5505.....	A95505
4620-3.....	G46200	5056.....	A95056	5552.....	A95552 *
4620H.....	H46200	5058.....	A95058	5554.....	A95554
4621.....	G46210	5059.....	A95059	5556.....	A95556
4621H.....	H46210	5060.....	G50600	5556A.....	A95556
4626.....	G46260	5067.....	N13020	5557.....	A95557
4626H.....	H46260	5077.....	N07080	5605.....	A95605
4640.....	K22440	5082.....	A95082	5639.....	N07001
4643.....	A94643	5083.....	A95083	5652.....	A95652 *
4715.....	G47150	5084.....	A92618	5654.....	A95654
4718.....	G47180	5086.....	A95086	5657.....	A95657
4718H.....	H47180	5087.....	A95087	5716.....	N10276
4720.....	G47200	5090.....	A92024	5754.....	A95754
4720H.....	H47200	5091.....	A95091 *	5854.....	A95854 *
4750.....	K94800	5100.....	A82024	5954.....	A95954
4750.....	K95000	5110.....	A95110	6002.....	A96002
4815.....	G48150	5115.....	G51150	6003.....	A96003
4815H.....	H48150	5117.....	G51170	6004.....	A96004 *
4817.....	G48170	5119.....	A95119	6005.....	A96005
4817H.....	H48170	5120.....	G51200	6005A.....	A96005
4820.....	G48200	5120H.....	H51200	6005B.....	A96005
4820H.....	H48200	5130.....	G51300	6006.....	A96006

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<u>Element</u>	<u>Symbol</u>	<u>UNS Designation</u>	<u>Element</u>	<u>Symbol</u>	<u>UNS Designation</u>
Actinium	Ac	E00000 - E00999	Rhodium	Rh	P05001 - P05999
Aluminum	Al	A00001 - A99999	Rubidium	Rb	L09001 - L09999
Antimony (Stibium)	Sb	M00001 - M00999	Ruthenium	Ru	P06001 - P06999
Argentum (Silver)	Ag	P07001 - P07999	Samarium	Sm, Sa	E79000 - E82999
Arsenic	As	M01001 - M01999	Scandium	Sc	E83000 - E84999
Aurum (Gold)	Au	P00001 - P00999	Selenium	Se	L10001 - L10999
Barium	Ba	M02001 - M02999	Silicon	Si	M30001 - M39999
Beryllium (Glucinum)	Be	R10001 - R19999	Silver (Argentum)	Ag	P07001 - P07999
Bismuth	Bi	L00001 - L00999	Sodium (Natrium)	Na	L11001 - L11999
Boron	B	R01001 - R01999	Stannum (Tin)	Sn	L13001 - L13999
Cadmium	Cd	L01001 - L01999	Steels - AISI H		H00001 - H99999
Calcium	Ca	M03001 - M03999	Steels - Cast		J00001 - J99999
Cassiopeium (Lutetium)	Lu	E68000 - E68999	Steels - Miscellaneous		K00001 - K99999
Cerium	Ce	E01000 - E20999	Steels - SAE/AISI		G00001 - G99999
Cesium	Cs	L02001 - L02999	Carbon and Low		
Chromium	Cr	R20001 - R29999	Alloy Steels		
Cobalt	Co	R30001 - R39999	Steels - Stainless		S00001 - S59999
Columbium (Niobium)	Cb	R04001 - R04999	Steels - Tool		T00001 - T99999
Copper (Cuprum)	Cu	C00001 - C99999	Steels - Valve Steels and		S60001 - S69999
Cuprum (Copper)	Cu	C00001 - C99999	High Temperature		
Dysprasium	Dy	E46000 - E47999	Alloys		
Erbium	Er	E48000 - E49999	Stibium (Antimony)	Sb	M00001 - M00999
Europium	Eu	E50000 - E51999	Strontium	Sr	M06001 - M06999
Ferrum, Cast (Iron, Cast)	Fe	F00001 - F99999	Tantalum	Ta	R05001 - R05999
Gadolinium	Gd	E52000 - E55999	Tellurium	Te	M07001 - M07999
Gallium	Ga	L03001 - L03999	Terbium	Tb	E85000 - E86999
Germanium	Ge	M04001 - M04999	Thallium	Tl	L12001 - L12999
Glucinum (Beryllium)	Be	R10001 - R19999	Thorium	Th	R06001 - R06999
Gold (Aurum)	Au	P00001 - P00999	Thulium	Tm	E87000 - E87999
Hafnium	Hf	R02001 - R02999	Tin (Stannum)	Sn	L13001 - L13999
Holmium	Ho	E56000 - E57999	Titanium	Ti	R50001 - R59999
Hydrargyrum (Mercury)	Hg	L07001 - L07999	Tungsten (Wolfram)	W	R07001 - R07999
Indium	In	L04001 - L04999	Uranium	U	M08001 - M08999
Iridium	Ir	P01001 - P01999	Vanadium	V	R08001 - R08999
Iron, Cast (Ferrum, Cast)	Fe	F00001 - F99999	Weld, Filler - Austenitic		W30000 - W39999
Kalium (Potassium)	K	L08001 - L08999	Stainless Steels		
Lanthanum	La	E58000 - E67999	Weld, Filler - Carbon		W00000 - W09999
Lead (Plumbum)	Pb	L50001 - L59999	Steels		
Lithium	Li	L06001 - L06999	Weld, Filler Metal -		W50000 - W59999
Lutetium (Cassiopeium)	Lu	E68000 - E68999	Chromium Low Alloy		
Magnesium	Mg	M10001 - M19999	Steels		
Manganese	Mn	M20001 - M29999	Weld, Filler - Copper		W60000 - W69999
Mercury (Hydrargyrum)	Hg	L07001 - L07999	Alloys		
Mixed rare earths		E21000 - E45999	Weld, Filler - Ferritic		W40000 - W49999
Molybdenum	Mo	R03001 - R03999	Stainless Steels		
Natrium (Sodium)	Na	L11001 - L11999	Weld, Filler -		W10000 - W19999
Neodymium	Nd	E69000 - E73999	Manganese-		
Niobium (Columbium)	Nb	R04001 - R04999	Molybdenum Alloys		
Osmium	Os	P02001 - P02999	Weld, Filler - Ni Alloys		W80000 - W89999
Palladium	Pd	P03001 - P03999	Weld, Filler - Ni Steels		W20000 - W29999
Platinum	Pt	P04001 - P04999	Weld, Surfacing Alloys		W70000 - W79999
Plumbum (Lead)	Pb	L50001 - L59999	Wolfram (Tungsten)	W	R07001 - R07999
Plutonium	Pu	M05001 - M05999	Ytterbium	Yb	E88000 - E89999
Potassium (Kalium)	K	L08001 - L08999	Yttrium	Y	E90000 - E99999
Praesodymium	Pr	E74000 - E77999	Zinc	Zn	Z00001 - Z99999
Promethium	Pm	E78000 - E78999	Zirconium	Zr	R60001 - R69999
Rhenium	Re	R40001 - R49999			