

# Standard Classification for Chemical Resistance of Poly(Vinyl Chloride) (PVC) Homopolymer and Copolymer Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds<sup>1</sup>

This standard is issued under the fixed designation D5260; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon  $(\varepsilon)$  indicates an editorial change since the last revision or reapproval.

#### 1. Scope\*

- 1.1 This classification covers the method for determining and classifying the resistance of poly(vinyl chloride) (PVC) homopolymer and copolymer compounds, and chlorinated poly(vinyl chloride) (CPVC) compounds in chemicals by simple immersion testing of unstressed specimens.
- 1.2 This classification is applicable to any PVC or CPVC compound as defined in Specifications D1784, D4216, D4396, or D4551.
- 1.3 The values stated in SI units are to be regarded as standard.
- 1.4 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of this standard.
- 1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

Note 1—There are no ISO standards covering the subject matter of this classification.

#### 2. Referenced Documents

2.1 ASTM Standards:<sup>2</sup>

D543 Practices for Evaluating the Resistance of Plastics to Chemical Reagents

D883 Terminology Relating to Plastics

D1600 Terminology for Abbreviated Terms Relating to Plastics

D1784 Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds

D4216 Specification for Rigid Poly(Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly(Vinyl Chloride) (CPVC) Building Products Compounds

D4396 Specification for Rigid Poly(Vinyl Chloride) (PVC) and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds for Plastic Pipe and Fittings Used in Nonpressure Applications

D4551 Specification for Poly(Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane

#### 3. Terminology

- 3.1 Definitions and Abbreviations:
- 3.1.1 Definitions are in accordance with Terminology D883 and abbreviations with Terminology D1600 unless otherwise indicated.

# 4. Significance and Use

- 4.1 Reference this chemical resistance classification for any PVC/CPVC material compound specification wherein a level of resistance to specific chemicals is required for satisfactory product performance.
- 4.2 Listing of a chemical in the annex does not imply PVC/CPVC compatibility or resistance to the chemical. Some of the chemicals listed could be deleterious to a specific compound, causing radical changes in the physical properties. Resistance to these chemicals is not intended to be a practical requirement in a specification.
- 4.3 For resistance to mixtures of chemicals, it is suggested that the blend be tested rather than accepting the resistance of the individual chemicals because of a possible solvency enhancement of the combined chemicals.
- 4.4 The specimens tested in this classification are unstressed. When service conditions include stress or other factors, or both, test chemical resistance of the PVC/CPVC compound under actual service conditions.

 $<sup>^{1}</sup>$  This classification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.15 on Thermoplastic Materials.

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<sup>&</sup>lt;sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.



#### 5. Basis of Classification

5.1 The chemical resistance of a PVC or CPVC compound is composed of the cell classifications specified from Table 1. For example, the resistance of PVC to 25 % acetic acid at ambient temperature would be written as a cell classification of A05231:

	Class
Chemical (acetic acid from annex)	A05
Concentration of 25 %	2
Temperature of 23°C	3
Resistance	1

Note 2—The cell-type format provides the means of classifying chemical resistance. This type of format is subject to possible misapplication in classifying a chemical resistance that is unobtainable with commercially available materials. Consult the manufacturer regarding this classification.

#### 6. Performance Requirements

6.1 The chemical resistance shall be for a compound that meets the physical property and processing requirements of the application.

# 7. Sampling

- 7.1 A batch or lot shall be considered as a unit of manufacture and is permitted to consist of a blend of two or more production runs of material.
  - 7.2 Sample using a statistically acceptable procedure.

## 8. Test Methods

8.1 Determine the chemical resistance of a compound following the procedure of Test Method D543 except the exposure period shall be for 30 days. Note the chemical, concentration, test temperature, and resistance in accordance with 8.1.1 - 8.1.4. This data is compiled in Table 1 and comprises the six digits of the chemical resistance cell.

- 8.1.1 The test chemical is designated from the alphanumerical list of chemicals in the annex. This alphanumeric designation is the first three digits of the chemical resistance cell.
- 8.1.2 The concentration of the chemical from row two of Table 1 is designated as the fourth digit of the chemical resistance cell.
- 8.1.3 The test temperature from row three of Table 1 is designated as the fifth number of the chemical resistance cell.
- 8.1.4 The resistance of a compound from row four of Table 1 is designated as the sixth number of the chemical resistance cell. Grade a compound for its resistance to the testing of 8.1.1 8.1.3 as follows:

	Resistant	Marginally	Non-
		Resistant	Resistant
Linear Swelling	0 %	<5 %	>5 %
Change in Weight	<1 %	<10 %	>10 %
Change in Shore Hardness	no change	<5 units	>5 units

# 9. Inspection

9.1 Inspection of the product shall be agreed upon between the purchaser and the supplier as part of the purchase contract.

## 10. Rejection and Rehearing

10.1 Product that fails to conform to the requirements of this classification shall not be certified as meeting the requirements of this classification. Report rejection to the producer or supplier promptly and in writing. In case of dissatisfaction with the results of the test, the producer or supplier is permitted to make claim for a rehearing.

#### 11. Keywords

11.1 chemical resistance; chlorinated poly(vinyl chloride) polymers; poly(vinyl chloride) copolymers; poly(vinyl chloride) polymers

**TABLE 1 Chemical Resistance of a Compound** 

Designation	Property and Unit -				Cell Lim	its			
Order Number	Property and Offic	0	1	2	3	4	5	6	7
1 to 3	chemical	unspecified			use numbe	er of chemical	from annex		
4	concentration, %	unspecified	0 to 19	20 to 39	40 to 59	60 to 79	80 to 99	100	
5	temperature,° C	unspecified	<0	0 to 19	20 to 39	40 to 59	60 to 79	80 to 100	>100
6	resistance	unspecified	R	MR	NR				

#### ANNEX

(Mandatory Information)

# A1. ALPHANUMERICAL LIST OF CHEMICALS

Acetaldehyde	A01	Ammonia Biflouride	A19
Acetamide	A02	Ammonium Carbonate	A20
Acetate Solvent	A03	Ammonium Casenite	A21
Acetic Acid, Glacial	A04	Ammonium Chloride	A22
Acetic Acid	A05	Ammonium Hydroxide	A23
Acetic Anhydride	A06	Ammonium Nitrate	A24
Acetone	A07	Ammonium Oxalate	A25

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Acetylene	A08	Ammonium Persulfate	A26
Acrylonitrile	A09	Ammonium Phosphate, Dibasic	A27
Aluminum Chloride	A10	Ammonium Phosphate, Monobasic	A28
Aluminum Fluoride	A11	Ammonium Phosphate, Tribasic	A29
Aluminum Hydroxide	A12	Ammonium Sulfate	A30
Aluminum Potassium Sulfate	A13	Ammonium Thio-Sulfate	A31
Aluminum Sulfate	A14	Amyl Acetate	A32
Amines	A15	Amyl Alcohol	A33
Ammonia, Anhydrous	A16	Amyl Chloride	A34
Ammonia, Liquid	A17	Aniline	A35
Ammonia, Nitrate	A18	Aqua Regia (80 % HCI/20 % H <sub>2</sub> SO <sub>4</sub> )	A36
		Arsenic Acid	A37
Barium Carbonate	B01	Benzyl Alcohol	B14
Barium Chloride	B02	Borax (Sodium Borate)	B15
Barium Cyanide	B03	Boric Acid	B16
Barium Hydroxide	B04	Brewey Slop	B17
Barium Nitrate	B05	Bromine	B18
Barium Sulfate	B06	Butadiene	B19
Barium Sulfide	B07	Butane	B20
Beer	B08	Butter	B21
Beet Sugar Liquids	B09	Buttermilk	B22
Benzaldehyde	B10	Butyl Alechal	B23
Benzene Benzeig Agid	B11	Butyl Alcohol	B24 B25
Benzoic Acid Benzol	B12 B13	Butylene	B25 B26
Delizui	ыз	Butyric Acid	B20
Calaium Biaultida	201	Chlorehannen (mans)	
Calcium Bisulfide	C01	Chlorobenzene (mono)	C20
Calcium Carbonate	C02	Chloroform	C21
Calcium Chloride	C03	Chlorosulfuric Acid	C22
Calcium Hydroxide	C04 C05	Chlorox (bleach)	C23 C24
Calcium Hypochlorite Calcium Sulfate	C05	Chocolate Syrup Chromic Acid	C24 C25
Calgon	C06 C07	Cider	C25
Cane Juice	C08	Citric Acid	C27
Carbolic Acid(See Phenol)	000	Coffee	C28
Carbon Bisulfide	C09	Copper Chloride	C29
Carbon Dioxide	C10	Copper Cyanide	C30
Carbon Disulfide	C11	Copper Fluorborate	C31
Carbon Monoxide	C12	Copper Nitrate	C32
Carbon Tetrachloride	C13	Copper Sulfate	C33
Carbonated Water	C14	Cream	C34
Carbonic Acid	C15	Cresols	C35
Catsup	C16	Cresylic Acid	C36
Chloroacetic Acid	C17	Cyclohexane	C37
Chlorinated Glue	C18	Cyanic Acid	C38
Chlorine, Anhydrous Liquid	C19		
Detergents	D01	Diethylene Glycol	D04
Diethylene	D02	Diphenyl Oxide	D05
Diacetone Alcohol	D03	Dyes	D06
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Epsom Salts(See Magnesium Sulfate)		Ethyl Chloride	E06
Ethane	E01	Ethyl Sulfate	E07
Ethanolamine	E02	Ethylene Chloride	E08
Ether	E03	Ethylene Dichloride	E09
Ethyl Acetate	E04	Ethylene Glycol	E10
Ethyl Alcohol	E05	Ethylene Oxide	E11
Fatty Acids	F01	Freon 22	F13
Ferric Chloride	F02	Freon 113	F14
Ferric Nitrate	F03	Freon T.F.	F15
Ferric Sulfate	F04	Fruit Juice	F16
Ferrous Chloride	F05	Fuel Oil #1	F17
Ferrous Sulfate Fluorboric Acid	F06 F07	Fuel Oil #2 Fuel Oil #3	F18 F19
Fluoriboric Acid Fluosilicic Acid	F07 F08	Fuel Oil #3 Fuel Oil #5A	F19 F20
Formaldehyde	F08 F09	Fuel Oil #5B	F20 F21
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Formic Acid Freon 11	F10 F11	Fuel Oil #6 Furan Resin	F22 F23
Freon 12 (wet)	F12	Furfural	F24
Gasoline (unleaded)	G01	Glycerine	G06
Gasoline (unleaded premium)	G02	Glycolic Acid	G07
Gelatin Glucose	G03 G04	Gold Monocyanide Grape Juice	G08 G09
Glue, P.V.A.	G05	Grease	G10
Heptane	H01	Hydrochloric Acid	H09
Hexane	H02	Hydrocyanic Acid	H10
Hexyl Alcohol	H03	Hydrofluoric Acid	H11
Honey	H04	Hydrofluosilicic Acid	H12
Hydraulic Oil (Petroleum)	H05 H06	Hydrogen Peroxide	H13 H14
Hydraulic Oil (Synthetic) Hydrazine	H07	Hydrogen Sulfide, Aqueous Hydroxyacetic Acid	H14 H15
Hydrobromic Acid	H08	Trydroxyddddd 70ld	1110
Ink	l01	Isopropyl Acetate	105
lodine	101	Isopropyl Acetate Isopropyl Ether	105
Isobutyl Alcohol	103	Isotane	107
Isopropyl Alcohol	104		
JP 3 Jet Fuel	J01	JP 5 Jet Fuel	J03
JP 4 Jet Fuel	J02		
Kerosene	K01		
Lacquers	L01	Lead Sulfamate	L06
Lactic Acid	L02	Ligroin	L07
Lard Latex	L03 L04	Lime Lubricants	L08 L09
Lead Acetate	L05	Labricanto	200
Magnesium Carbonate	M01	Methyl Acrylate	M17
Magnesium Chloride	M02	Methyl Alcohol	M18
Magnesium Hydroxide	M03	Methyl Bromide	M19
Magnesium Nitrate	M04	Methyl Butyl Ketone	M20
Magnesium Oxide Magnesium Sulfate	M05 M06	Methyl Cellosolve Methyl Chloride	M21 M22
Maleic Acid	M07	Methyl Dichloride	M23
Maleic Anhydride	M08	Methyl Ethyl Ketone	M24
Mash	M09	Methyl Isobutyl Ketone	M25
Mayonnaise Melamine	M10 M11	Methyl Isopropyl Ketone Methyl Methacrylate	M26 M27
Mercuric Chloride	M12	Methylamine	M28
Mercuric Cyanide	M13	Methylene Chloride	M29
Mercury	M14	Milk	M30
Methyl Acetana	M15	Mineral Oil Molasses	M31 M32
Methyl Acetone	M16	Mustard	M33
Nantha	N01	Nickel Sulfate	N04
Naptha Napthalene	N01 N02	Nitric Acid	N04 N05
Nickel Chloride	N03	Nitrobenzene	N06
Oils:		Oils:	
Anise	O01	Olive	O15
Bay	O02	Orange	016
Bone Castor	O03 O04	Palm Peanut	O17 O18
CasiUI	O04	r <del>c</del> anut	018

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Cinnaman			
Cinnamon	O05	Peppermint	O19
Citric	O06	Pine	O20
Clove	O07	Rape Seed	021
	008	·	
Coconut		Rosin	022
Cod Liver	O09	Sesame Seed	O23
Corn	O10	Soybean	O24
Cotton Seed	011	Sperm	O25
	O12	Oleic Acid	O26
Ginger			
Lemon	O13	Oleum	O27
Linseed	O14	Oxalic Acid	O28
-			
Paraffin	P01	Potash	P23
Pentane	P02	Potassium Bicarbonate	P24
Perchloroethylene	P03	Potassium Bromide	P25
Petrolatum	P04	Potassium Carbonate	P26
Phenol	P05	Potassium Chlorate	P27
Phosphoric Acid	P06	Potassium Chloride	P28
Photographic Developer	P07	Potassium Chromate	P29
		1 ottooram omontato	. =0
Plating Solution:	Doo	5	500
Antimony	P08	Potassium Cyanide	P30
Arsenic	P09	Potassium Dichromate	P31
Brass	P10	Potassium Hydroxide	P32
Bronze	P11	Potassium Nitrate	P33
Cadmium	P12	Potassium Permanganate	P34
Chrome	P13	Potassium Sulfate	P35
Copper	P14	Propane (liquified)	P36
• •			
Gold	P15	Propyl Alcohol	P37
Indium	P16	Propylene Glycol	P38
Iron	P17	Pyridene	P39
	P18	•	P40
Lead		Pyrogallic Acid	P40
Nickel	P19		
Silver	P20		
Tin	P21		
Zinc	P22		
Rosins Rum	R01 R02	Rust Inhibitors	R03
		Rust Inhibitors	R03
		Rust Inhibitors  Sodium Polyphosphate, monobasic	R03
Rum	R02	Sodium Polyphosphate, monobasic	
Rum  Salad Dressing Sea Water	R02 S01 S02	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic	S26 S27
Rum  Salad Dressing Sea Water Shellac (bleached)	R02 S01 S02 S03	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic	\$26 \$27 \$28
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange)	R02 S01 S02 S03 S04	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate	\$26 \$27 \$28 \$29
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone	S01 S02 S03 S04 S05	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate	\$26 \$27 \$28 \$29 \$30
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange)	R02 S01 S02 S03 S04	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate	\$26 \$27 \$28 \$29
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide	S01 S02 S03 S04 S05 S06	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate	\$26 \$27 \$28 \$29 \$30 \$31
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate	S01 S02 S03 S04 S05 S06 S07	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate	\$26 \$27 \$28 \$29 \$30 \$31 \$32
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions	S01 S02 S03 S04 S05 S06 S07 S08	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate	S01 S02 S03 S04 S05 S06 S07 S08 S09	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$33
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions	S01 S02 S03 S04 S05 S06 S07 S08	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate	S01 S02 S03 S04 S05 S06 S07 S08 S09	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bicarbonate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bicarbonate Sodium Bisulfate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfite	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$35 \$36 \$37
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bicarbonate Sodium Bisulfate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfite Sodium Carbonate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Carbonate Sodium Carbonate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S11 S12 S13 S14	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfite Sodium Carbonate Sodium Chlorate Sodium Chloride	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chloride Sodium Chromate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids)	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfite Sodium Carbonate Sodium Chlorate Sodium Chloride	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Bisulfite Sodium Carbonate Sodium Chloride Sodium Chromate Sodium Chromate Sodium Chromate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Bisulfate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chloride Sodium Cyanide Sodium Cyanide Sodium Hydroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$42 \$43
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chloride Sodium Chloride Sodium Cyanide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Chloride	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$42 \$43
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Bisulfate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chloride Sodium Cyanide Sodium Cyanide Sodium Hydroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S20	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chloride Sodium Chloride Sodium Cyanide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Chloride	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$42 \$43
Rum  Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chloride Sodium Chyanide Sodium Hypochlorite Sodium Hypochlorite Sodium Metaphosphate Sodium Metasilicate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Dioxide Sulfur Trioxide Sulfur Acid	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$45
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chloride Sodium Chyanide Sodium Hydroxide Sodium Hydroxide Sodium Hypochlorite Sodium Metaphosphate Sodium Metasilicate Sodium Metasilicate Sodium Nitrate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Trioxide Sulfur Trioxide Sulfur Toxide Sulfurous Acid	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$45 \$46 \$47 \$48
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Bisulfite Sodium Carbonate Sodium Chlorate Sodium Chloride Sodium Chloride Sodium Chyonate Sodium Chloride Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hypochlorite Sodium Metaphosphate Sodium Metasilicate Sodium Nitrate Sodium Perborate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Dioxide Sulfur Trioxide Sulfur Acid	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$44
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chloride Sodium Chyanide Sodium Hydroxide Sodium Hydroxide Sodium Hypochlorite Sodium Metaphosphate Sodium Metasilicate Sodium Metasilicate Sodium Nitrate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Trioxide Sulfur Trioxide Sulfur Toxide Sulfurous Acid	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$45 \$46 \$47 \$48
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Bisulfite Sodium Carbonate Sodium Chlorate Sodium Chloride Sodium Chloride Sodium Chyonate Sodium Chloride Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hypochlorite Sodium Metaphosphate Sodium Metasilicate Sodium Nitrate Sodium Perborate	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Trioxide Sulfur Trioxide Sulfur Toxide Sulfurous Acid	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$45 \$46 \$47 \$48
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chromate Sodium Chromate Sodium Chromate Sodium Chromate Sodium Hydroxide Sodium Hydroxide Sodium Metaphosphate Sodium Metaphosphate Sodium Metasilicate Sodium Perborate Sodium Perborate Sodium Peroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Trioxide Sulfur Trioxide Sulfur Trioxide Sulfur Acid Sulfurous Acid Syrup	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$44 \$45 \$45 \$46 \$47 \$48 \$49
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Bicarbonate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chloride Sodium Cyanide Sodium Hydroxide Sodium Hydroxide Sodium Hypochlorite Sodium Metaphosphate Sodium Nitrate Sodium Perborate Sodium Perborate Sodium Peroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Dioxide Sulfur Dioxide Sulfuric Acid Sulfurous Acid Syrup  Tomato Juice Trichloroethane	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$42 \$43 \$44 \$45 \$46 \$47 \$48 \$49
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chlorate Sodium Chromate Sodium Chromate Sodium Chromate Sodium Chromate Sodium Hydroxide Sodium Hydroxide Sodium Metaphosphate Sodium Metaphosphate Sodium Metasilicate Sodium Perborate Sodium Perborate Sodium Peroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Trioxide Sulfur Trioxide Sulfur Trioxide Sulfur Acid Sulfurous Acid Syrup	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$45 \$45 \$46 \$47 \$48 \$49
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Bicarbonate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chlorate Sodium Chloride Sodium Cyanide Sodium Hydroxide Sodium Hydroxide Sodium Hypochlorite Sodium Metaphosphate Sodium Nitrate Sodium Perborate Sodium Perborate Sodium Peroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Dioxide Sulfur Dioxide Sulfuric Acid Sulfurous Acid Syrup  Tomato Juice Trichloroethane	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$46 \$47 \$48 \$49
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chloride Sodium Chloride Sodium Chyonide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hypochlorite Sodium Metaphosphate Sodium Metaphosphate Sodium Perborate Sodium Perborate Sodium Peroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfate Sodium Tetraborate Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Dioxide Sulfur Trioxide Sulfur Trioxide Sulfuric Acid Sulfurous Acid Syrup  Tomato Juice Trichloroethylene Trichloropropane	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$43 \$44 \$45 \$46 \$47 \$48 \$49
Salad Dressing Sea Water Shellac (bleached) Shellac (orange) Silicone Silver Bromide Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bisulfate Sodium Bisulfate Sodium Carbonate Sodium Chlorate Sodium Chloride Sodium Chloride Sodium Cyanide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Hydroxide Sodium Peroxide Sodium Perborate Sodium Perborate Sodium Peroxide	S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25	Sodium Polyphosphate, monobasic Sodium Polyphosphate, dibasic Sodium Polyphosphate, tribasic Sodium Silicate Sodium Sulfate Sodium Sulfide Sodium Tetraborate Sodium Thiosulfate Sorgum Soy Sauce Stannic Chloride Stannic Fluoborate Starch Stearic Acid Stoddard Solvent Styrene Sugar (liquids) Sulfate Liquors Sulfur Chloride Sulfur Trioxide Sulfur Trioxide Sulfur Trioxide Sulfurous Acid Syrup  Tomato Juice Trichloroethane Trichloroethylene	\$26 \$27 \$28 \$29 \$30 \$31 \$32 \$33 \$34 \$35 \$36 \$37 \$38 \$39 \$40 \$41 \$42 \$43 \$44 \$45 \$44 \$45 \$46 \$47 \$48 \$49



Toluene	Т07	Turpentine	T14
Urine	U01		
Vegetable Juice	V01	Vinegar	V02
Water, Distilled Water, Fresh Water, Mine, Acid Water, Salt Weed Killers	W01 W02 W03 W04 W05	Whey Whiskey Wine White Liquor (pulp mill) White Water (pulp mill)	W06 W07 W08 W09 W10
Xylene	X01		
Zinc Chloride Zinc Hydrosulfite	Z01 Z02	Zinc Sulfate	Z03

## **SUMMARY OF CHANGES**

Committee D20 has identified the location of selected changes to this standard since the last issue (D5260 - 04(2010)) that may impact the use of this standard. (May 1, 2016)

(1) Removed reference to withdrawn standard Specification D3915.

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