



Standard Specification for Boiled Linseed Oil¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers two types of boiled linseed oil:

1.1.1 *Type I*, Regular Boiled, and

1.1.2 *Type II*, Double Boiled.

2. Referenced Documents

2.1 *ASTM Standards:*

D 564 Test Methods for Liquid Paint Driers²

D 1475 Test Method for Density of Liquid Coatings, Inks, and Related Products²

D 1544 Test Method for Color of Transparent Liquids (Gardner Color Scale)²

D 1639 Test Method for Acid Value of Organic Coating Materials³

D 1951 Test Method for Ash in Drying Oils and Fatty Acids³

D 1953 Test Method for Drying Properties of Drying Oils⁴

D 1959 Test Method for Iodine Value of Drying Oils and Fatty Acids³

D 1960 Test Method for Loss on Heating of Drying Oils³

D 1962 Test Method for Saponification Value of Drying Oils, Fatty Acids, and Polymerized Fatty Acids³

D 1963 Test Method for Specific Gravity of Drying Oils, Varnishes, Resins, and Related Materials at 25/25°C³

D 1965 Test Method for Unsaponifiable Matter in Drying Oils, Fatty Acids, and Polymerized Fatty Acids³

D 2090 Test Method for Clarity and Cleanness of Paint and Ink Liquids³

3. Properties

3.1 Boiled linseed oil shall conform to the requirements shown in Table 1.

4. Test Methods

4.1 The properties enumerated in this specification shall be determined in accordance with the appropriate ASTM methods given in Table 1.

5. Keywords

5.1 boiled linseed oil; linseed oil

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² *Annual Book of ASTM Standards*, Vol 06.01.

³ *Annual Book of ASTM Standards*, Vol 06.03.

⁴ Discontinued; see 1980 *Annual Book of ASTM Standards*, Part 29.

TABLE 1 Physical Properties

	Type I	Type II	ASTM Methods
Specific gravity, 25/25°C	0.928 to 0.938	0.930 to 0.945	D 1963, D 1475
Acid value, max	7.5	8.0	D 1639
Saponification value	189 to 195	190 to 198	D 1962
Unsaponifiable matter, max, %	1.5	1.5	D 1965
Iodine value (Wijs), min	170	165	D 1959
Loss on heating at 105 to 110°C, max, %	0.4	0.6	D 1960
Appearance at 65°C	clear and transparent	clear and transparent	D 2090
Gardner color, max	15, approximately	15, approximately	D 1544
Set-to-touch time, max, h	16	8	D 1953
Ash, max, %	0.50	0.60	D 1951, D 564

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