



Standard Specification for Distilled Linseed Fatty Acids¹

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1. Scope

1.1 This specification covers distilled acids derived from the distillation of linseed oil. Two types are covered as follows:

1.1.1 *Type I*—Usually produced from degummed linseed oil and referred to as water white linseed fatty acids.

1.1.2 *Type II*—Usually produced from recovered linseed oil and referred to as regular distilled linseed fatty acids.

2. Referenced Documents

2.1 ASTM Standards:

D 1467 Guide for Testing Fatty Acids Used in Protective Coatings²

D 1544 Test Method for Color of Transparent Liquids (Gardner Color Scale)³

D 1959 Test Method for Iodine Value of Drying Oils and Fatty Acids²

¹ This specification is under the jurisdiction of ASTM Committee D-1 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.32 on Drying Oils.

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² Annual Book of ASTM Standards, Vol 06.03.

³ Annual Book of ASTM Standards, Vol 06.01.

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D 1962 Test Method for Saponification Value of Drying Oils, Fatty Acids, and Polymerized Fatty Acids²

D 1965 Test Method for Unsaponifiable Matter in Drying Oils, Fatty Acids, and Polymerized Fatty Acids²

D 1980 Test Method for Acid Value of Fatty Acids and Polymerized Fatty Acids²

D 1982 Test Method for Titer of Fatty Acids²

3. Properties

3.1 Distilled linseed fatty acids shall conform to the following requirements:

	ASTM Test Methods	Type I	Type II
Acid value	D 1980	197 to 204	195 to 202
Saponification value	D 1962	197 to 204	195 to 202
Unsaponifiable matter, max, %	D 1965	1.0	2.0
Iodine value, min	D 1959	179	155
Color, Gardner, max	D 1544	3	7
Titer, °C	D 1982	17 to 20	19 to 25

4. Test Methods

4.1 The properties enumerated in this specification shall be determined in accordance with Methods D 1467.

5. Keywords

5.1 linseed fatty acids; linseed oil