

Designation: D 1843 - 63 (Reapproved 1998)

# Standard Specification for Fractionated and Distilled Cottonseed Fatty Acids<sup>1</sup>

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### 1. Scope

- 1.1 This specification covers distilled acids derived from cottonseed oil. Three types are covered as follows:
- 1.1.1 *Type I*—Highly fractionated fatty acids usually produced from recovered cottonseed oil.
- 1.1.2 *Type II*—Fractionated fatty acids usually produced from recovered cottonseed oil.
- 1.1.3 *Type III*—Usually produced from recovered cotton-seed oil.

#### 2. Referenced Documents

- 2.1 ASTM Standards:
- D 1467 Guide for Testing Fatty Acids Used in Protective Coatings<sup>2</sup>
- D 1544 Test Method for Color of Transparent Liquids (Gardner Color Scale)<sup>3</sup>

- D 1962 Test Method for Saponification Value of Drying Oils, Fatty Acids, and Polymerized Fatty Acids<sup>2</sup>
- D 1965 Test Method for Unsaponifiable Matter in Drying Oils, Fatty Acids, and Polymerized Fatty Acids<sup>2</sup>
- D 1980 Test Method for Acid Value of Fatty Acids and Polymerized Fatty Acids<sup>2</sup>
- D 1982 Test Method for Titer of Fatty Acids<sup>2</sup>

### 3. Properties

3.1 Fractionated and distilled cottonseed fatty acids shall conform to the requirements in Table 1.

#### 4. Test Methods

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

## 5. Keywords

5.1 cottonseed oil; fatty acids

- <sup>1</sup> 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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  - <sup>2</sup> Annual Book of ASTM Standards, Vol 06.03.
  - <sup>3</sup> Annual Book of ASTM Standards, Vol 06.01.

D 1959 Test Method for Iodine Value of Drying Oils and Fatty Acids<sup>2</sup>

TABLE 1 Requirements for Distilled Cottonseed Fatty Acids

	ASTM Test Method	Type I	Type II	Type III
Acid value	D 1980	195 to 201	106 to 204	199 to 205
Saponification value	D 1962	197 to 203	198 to 206	201 to 207
Unsaponifiable matter, max, %	D 1965	1.00	1.50	1.50
lodine value	D 1959	140 to 145	120 to 130	95 to 110
Color, Gardner, max	D 1544	2	5	8
Titer, °C	D 1982	5 max	25 max	32 to 38

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