AMERICAN SOCIETY FOR TESTING AND MATERIALS 100 Barr Harbor Dr., West Conshohocken, PA 19428 Reprinted from the Annual Book of ASTM Standards. Copyright ASTM

Standard Specification for Distilled Soybean Fatty Acids¹

This standard is issued under the fixed designation D 1537; 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 (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

- 1.1 This specification covers distilled acids derived from the distillation of soybean oil. Three types are covered, as follows .
- 1.1.1 *Type I*—Usually produced from degummed soybean oil and referred to as water white soybean fatty acids.
- 1.1.2 *Types II and III*—Usually produced from recovered soybean oil.

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

- 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 soybean 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 soybean fatty acids; soybean oil

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.

Current edition approved Sept. 19, 1960. Originally issued 1958. Replaces D 1537 – 58 T.

² Annual Book of ASTM Standards, Vol 06.03.

³ Annual Book of ASTM Standards, Vol 06.01.



TABLE 1 Requirements for Distilled Soybean Fatty Acids

	ASTM Test Methods	Type I	Type II	Type III
Acid value	D 1980	197 to 204	195 to 205	195 to 205
Saponification value	D 1962	197 to 204	197 to 207	197 to 207
Unsaponifiable matter, max, %	D 1965	1.0	2.0	2.0
lodine value, min	D 1959	133	125	120
Color, Gardner, max	D 1544	2	4	6
Titer, °C	D 1982	21 to 24	23 to 29	23 to 29

The American Society for Testing and Materials takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, 100 Barr Harbor Drive, West Conshohocken, PA 19428.