



Designation: D 1958 – 86 (Reapproved 1995)^{ε1}

Standard Test Method for Chloroform Insoluble Matter in Oiticica Oil¹

This standard is issued under the fixed designation D 1958; 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.

ε¹ NOTE—Keywords were added editorially in May 1995.

1. Scope

1.1 This test method covers the determination of the matter in oiticica oil that is insoluble in chloroform. It may also be used for other drying oils.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of whoever uses this standard to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* A specific hazard statement is given in Section 4.

2. Significance and Use

2.1 Mineral contamination in oiticica or other drying oils is insoluble in chloroform while the natural components of the oil are soluble. This test method provides a means to determine the degree of contamination by mineral matter.

3. Reagent

3.1 *Chloroform* (CHCl₃) (**Precaution**—See 4.1).

4. Hazards

4.1 *Chloroform* is a hazardous liquid that can be absorbed through the skin. Its vapor is hazardous through inhalation. It

is a narcotic. Use only with adequate ventilation (in a hood). For further information, see supplier's Material Safety Data Sheet.

5. Procedure

5.1 Dissolve 10 g of the sample in sufficient chloroform to obtain a fluid solution. Filter through a dried and weighed Gooch crucible, wash with chloroform until the oil is removed. Heat the crucible and residue, if present, at 105 ± 2°C, cool, and weigh. Repeat the heating and weighing until the weight is constant to 0.1 mg.

6. Calculation

6.1 Calculate the percent of insoluble matter, *I*, in chloroform as follows:

$$I = (R/S) \times 100$$

where:

R = residue, g, and

S = sample used, g.

7. Precision and Bias

7.1 Precision and bias data were not established at the time this test method was written. An effort is being made to obtain the precision and, if obtainable, will be published in future revisions. This test method has been in use for many years, and its usefulness has been well established.

8. Keywords

8.1 chloroform insoluble matter; oiticica oil

¹ This test method 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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