



## **Standard Specification for Spirits of Turpentine<sup>1</sup>**

This standard is issued under the fixed designation D 13; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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

### **1. Scope**

1.1 This specification covers the following kinds of spirits of turpentine as defined by the Naval Stores Act and Terminology D 804<sup>2</sup>: gum spirits of turpentine, steam-distilled wood turpentine, sulfate wood turpentine, and destructively-distilled wood turpentine.

1.2 The purchaser should specify the kind of spirits of turpentine desired.

1.3 This specification is no longer widely used as it only specifies physical characteristics and not chemical composition. This specification was developed when the chief use for turpentine was as a solvent. Currently, especially in the United States, only a very limited quantity of turpentine is used as a solvent. Its main end use is as a raw material for the preparation of polyterpene type resins and synthetic organic chemicals. In spite of its limited application as a solvent, and hence the limited use of this specification, it is considered to be important to retain this specification. When information is required on chemical composition, gas chromatography is the recommended procedure (see Test Method D 3009<sup>2</sup>).

### **2. Referenced Documents**

#### **2.1 ASTM Standards:**

D 233 Methods of Sampling and Testing Turpentine<sup>2</sup>

D 804 Terminology Relating to Naval Stores, and Related Products<sup>2</sup>

D 3009 Test Method for Composition of Turpentine by Gas Chromatography<sup>2</sup>

<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 D01.34 on Naval Stores.

Current edition approved July 10, 1997. Published September 1997. Originally published as D 13 – 14 T. Last previous edition D 13 – 92.

<sup>2</sup> *Annual Book of ASTM Standards*, Vol 06.03.

#### **2.2 Other Standard:**

Naval Stores Act of 1923 (42 Stat 1435.7 U.S.C.-91-99) as amended in 1951<sup>3</sup>

### **3. Properties**

3.1 Spirits of turpentine shall be pure and shall conform to the requirements prescribed in Table 1.

### **4. Appearance**

4.1 Spirits of turpentine shall be clear and free from suspended matter and water.

### **5. Color**

5.1 The color shall be “standard” or better.

### **6. Odor**

6.1 The odor shall be characteristic of the kind of spirits of turpentine specified. If desired, deliveries shall conform to the odor of the sample agreed upon between the purchaser and the seller.

### **7. Test Methods**

7.1 The material shall be sampled and the properties enumerated in this specification determined in accordance with the Methods D 233.

### **8. Keywords**

8.1 turpentine

<sup>3</sup> Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.