

**TT-T-295a****MAY 16, 1960****SUPERSEDING****Int. Fed. Spec. TT-T-00295 (GSA-FSS)****April 22, 1959****FEDERAL SPECIFICATION****THINNER, PAINT, MINERAL SPIRITS,  
VOLATILE, "ODORLESS"**

*This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.*

**1. SCOPE AND CLASSIFICATION**

1.1 Scope.—This specification covers the requirements of one grade and one type of odorless petroleum distillate.

**2. APPLICABLE SPECIFICATIONS, AND STANDARDS**

2.1 The following specifications and standards, of the issues in effect on date of invitation for bid, forms a part of this specification:

***Federal Specifications:***

TT-P-143—Paint, Varnish, Lacquer, and Related Materials; General Specification for Packaging, Packing and Marking.

PPP-C-96—Cans, Metal, 28 Gage and Lighter.

PPP-D-729 — Drums; Metal, 55-Gallon (For Shipment of Noncorrosive Material).

***Federal Standards:***

Fed. Std. No. 102—Preservation, Packaging, and Packing Levels.

Fed. Std. No. 123—Marking for Domestic Shipment (Civilian Agencies).

Fed. Std. No. 141—Paint, Varnish, Lacquer and Related Materials; Methods of Inspection, Sampling, and Testing.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications, Standards, and Handbooks and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

(Single copies of this specification and other product specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston, New York, Atlanta, Chicago, Kansas City, Mo., Dallas, Denver, San Francisco, Los Angeles, Seattle, and Washington, D. C.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications, Standards, and Handbooks from established distribution points in their agencies.)

***Military Standard:***

MIL-STD-129—Marking for Shipment and Storage.

(Copies of Military Specifications and Standards required by the contractor in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

**3. REQUIREMENTS**

3.1 Odorless mineral spirits shall meet the requirements given in table I:

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TABLE I.

Properties	Requirement
Appearance -----	Clear
Color, Saybolt, minimum ---	25
Odor -----	1
Corrosion of copper strip --	No more than slight tarnish
Distillation range:	
Initial boiling point, minimum -----	340°F.
Distillation by volume at 375°F., minimum -----	50 percent
End point, maximum -----	410°F.
Distillation residue, maximum -----	1.5 percent
Acidity-reaction of residue to methyl orange -----	Neutral
Doctor test -----	Negative
Aniline point -----	80°-90°C.
Flash point, Tag Closed -----	(176°-194°F.)
Cup, minimum -----	120°F.

<sup>1</sup> Shall be of a low order of odor when compared with normal petroleum thinners or solvents and such slight odor as may be noticeable shall be mild and non-irritating. Shall leave no residual odor after evaporation.

#### 4. SAMPLING, INSPECTION, AND TEST PROCEDURES

4.1 Unless otherwise specified herein, the supplier is responsible for the performance of all inspection requirements prior to submission for Government inspection and acceptance. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. Inspection records of the examinations and tests shall be kept complete and available to the Government as specified in the contract or order.

4.2 Sampling, inspection, and testing of thinner. — Unless otherwise specified, sampling and inspection shall be in accordance with methods 1011, 1021, and 1031 of Federal Test Method Standard No. 141.

4.3 Tests.—Tests shall be made in accordance with the applicable methods of Federal Test Method Standard No. 141 and as specified hereinafter.

4.3.1 The following tests shall be conducted in accordance with Federal Test Method Standard No. 141:

Test	Method No.
Appearance -----	4261
Color -----	4246
Odor -----	4401
Copper corrosion -----	5101
Distillation:	
Distillation range -----	4301
Distillation residue -----	4301
Acidity -----	5254
Doctor test -----	5351
Aniline point -----	4381
Flash point -----	4291

#### 4.4 Inspection of preparation for delivery.

—The packaging, packing and marking of the thinner shall be examined to determine conformance to the requirements of section 5 of this specification.

#### 5. PREPARATION FOR DELIVERY

For civil agency procurement, the definitions and applications of the levels of packaging, and packing shall be in accordance with Federal Standard No. 102.

5.1 Packaging and packing.—Thinner shall be packaged in the size container specified (see 6.2). Thinner shall be packaged Level A or C and packed Level A, B, or C, as specified (see 6.2), in accordance with Federal Specification TT-P-143.

5.2 Marking.—In addition to any special marking required by the contract or order, marking for shipment shall be in accordance with Federal Specification TT-P-143.

#### 6. NOTES

6.1 Intended use.—Odorless thinner is intended for use as a thinner and/or solvent for paints. It is most widely used in formulations of odorless alkyd type flats, semi-gloss

and enamels for trade sales where odorless paint is desired. It may also be used as a carrier for alkyd and certain other resin concentrates to be used in formulations of odorless type paint.

**6.2 Ordering data.** — Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Size of container (see 5.1).
- (c) Level of packaging and level of packing required (see 5.1).
- (d) Marking required (see 5.2).

**Notice.** — When Government drawings, specifications, or other data are used for any purpose

other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded, by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

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