

A-A-857  
November 9, 1979

# COMMERCIAL ITEM DESCRIPTION

## THINNER, DOPE AND LACQUER (CELLULOSE NITRATE)

The General Services Administration has authorized the use of this commercial item description in lieu of Federal Specification TT-T-266.

### Salient characteristics:

The product described here is for use in reducing the viscosity of cellulose nitrate dopes and lacquers. The product shall conform to air pollution regulations and to the following:

Constituents	Requirements		Reference
	Minimum	Maximum	
Total alcohol, percent by volume	--	30	ASTM E 260
Aliphatic naphtha, percent by volume	--	17	ASTM E 260
Total ester and ketone percent by volume	42	--	ASTM E 260
Isobutyl acetate or n-butyl acetate, percent by volume	30	--	ASTM E 260
Isobutyl alcohol or n-butyl alcohol, percent by volume	10	--	ASTM E 260
Rust particles or suspended matter	--	none	Note 1
Nonvolatile matter, mg per 100-ml sample	--	10.00	Note 2
Acidity, mg KOH per g sample	--	0.28	Note 3
Color, standard number	--	10	ASTM D 1209
Stain, discoloration or oiliness	--	none	Note 4
Water, turbidity (19 parts heptane to 1 part thinner)	--	none	ASTM D 1476
Copper corrosion, standard darkness allowed	--	2	ASTM D 1616
Sulfur	--	none	ASTM D 853

### Notes:

1. Examine 50 ml well-mixed thinner in a test tube for rust particles, suspended matter, sediment, and globules.
2. Evaporate 100 ml thinner in a tared dish to a constant weight.
3. Titrate 50 ml of thinner with 0.1N alcoholic KOH using 1 percent alcoholic phenolphthalein as indicator.
4. Allow 5 drops of thinner to evaporate for 30 minutes on a suspended No. 5 Whatman filter paper, and examine for stain or oiliness.

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**Certification.** The contractor shall certify that the product offered meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices and is the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

**Recovered materials.** The manufacturer shall utilize recovered materials to the maximum extent practicable.

**Packaging, packing, and marking.** The thinner shall be packaged in 2-oz glass bottles; metal cans of 1-pt, 1-qt, and 5-gal capacity; and 55-gal drums. Cans of 1 gal or less shall be rectangular. Five-gallon cans may be round or rectangular but, if they are round, they shall have an integral pouring device. The complete package shall be packed in such a manner as to ensure acceptance by common carrier and provide product protection against loss and damage during multiple shipments, handling, and storage. The shipping containers shall be in compliance with National Motor Freight Classification and Uniform Freight Classification. Marking shall be as specified in the contract or order.

ASTM standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

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