

A-A-857B
August 6, 1984
 SUPERSEDING
 A-A-857A
 April 20, 1981

COMMERCIAL ITEM DESCRIPTION

THINNER, DOPE AND LACQUER (CELLULOSE NITRATE)

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

This description covers a thinner intended for reducing the viscosity of cellulose nitrate dopes and lacquer.

Salient characteristics.

The thinner shall be free from rust particles and suspended matter. No discoloration or oiliness shall develop when 5 drops of thinner are allowed to evaporate 30 minutes from #5 Whatman filter paper.

Allowable ingredients:

Aliphatic naphtha	n-Butyl alcohol	n-Butyl acetate
Toluene	Isobutyl alcohol	Isobutyl acetate
Ethyl alcohol	Ethyl acetate	Methyl ethyl ketone
Isopropyl alcohol		

<u>Composition, percent by volume</u>	<u>Requirements</u>		<u>ASTM Reference</u>
	<u>Min</u>	<u>Max</u>	
1. Total alcohol	--	30	E 260
2. Aliphatic naphtha	--	17	E 260
3. Total esters and ketones	42	--	E 260
4. Isobutyl acetate or n-butyl acetate	30	--	E 260
5. Isobutyl alcohol or n-butyl alcohol	10	--	E 260
6. Compounds with olefinic or cycloolefinic unsaturation	--	5	E 260
7. Aromatic compounds with 8 or more carbon atoms	--	8	E 260
8. Toluene and branched chain ketones	--	20	E 260
9. Total of 6 through 8 above	--	20	E 260

Nonvolatile matter. Nonvolatiles shall not be more than 10 mg per 100 ml of thinner (ASTM D 1353).

Acidity. The acidity shall not be more than 0.28 mg KOH per gram of thinner (titrate with 0.1 N alcoholic KOH using 1 percent alcoholic phenolphthalein indicator).

Color. The color shall not be darker than color standard No. 10 (ASTM D 1209).

Heptane miscibility. There shall be no turbidity when 19 parts heptane are mixed with 1 part thinner (ASTM D 1476).

Copper corrosion. The copper strip shall show no tarnish greater than classification 2 (ASTM D 130).

Sulfur. The thinner shall contain no sulfur (ASTM D 853).

The issues of the ASTM test methods in effect on the date of the solicitation shall be used to determine compliance with these requirements.

Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

Preservation, packaging, packing, labeling, and marking. The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

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

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THE COMMERCIAL ITEM CERTIFICATION CLAUSE IS NOT REQUIRED WHEN THIS COMMERCIAL ITEM DESCRIPTION IS USED FOR PROCUREMENT.

MILITARY INTEREST

Military Coordinating Activity

Army - ME

Military Custodians

Army - ME

Air Force - 99

Review

Air Force - 84 .

CIVIL AGENCY COORDINATING ACTIVITIES:

Commerce - NBS

PREPARING ACTIVITY:

GSA - FSS