

[METRIC]  
A-A-59142  
21 January 1998  
SUPERSEDING  
LLL-R-626D  
15 January 1991

## COMMERCIAL ITEM DESCRIPTION

### ROSINS: GUM, WOOD, AND TALL OIL

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. SCOPE. This commercial item description (CID) covers three classes, two types, and 13 grades of rosin.

#### 2. CLASSIFICATION

##### 2.1 Classes.

Class A - Gum rosin (obtained from oleoresin collected from living trees).

Class B - Wood rosin (obtained from the oleoresin contained in dead wood such as stumps and knots).

Class C - Tall oil rosin (obtained from tall oil).

##### 2.2 Types.

Type I - Lump (solid mass (molten) or large lump)

Type II - Powdered (ground from type I rosin)

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent by letter to: Defense Supply Center Richmond (DSCR), ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.
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AMSC N/A

FSC 6810

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

2.3 Grades. Type I rosin shall be of the following grades as prescribed by the Naval Stores Act:

Grade X (lightest color)  
 Grade WW  
 Grade WG  
 Grade N  
 Grade M  
 Grade K  
 Grade I  
 Grade H  
 Grade G  
 Grade F  
 Grade E  
 Grade D (darkest color)  
 Grade FF (unrefined dark-colored wood rosin)

### 3. SALIENT CHARACTERISTICS.

3.1 Type I rosin, physical and chemical characteristics shall conform to applicable physical and chemical characteristics of table I when tested as specified therein.

TABLE I. Physical and chemical characteristics of type I rosin.

Characteristic	Requirement		ASTM test method
	Except grade FF	Grade FF	
Grade	As specified	As specified	D509
Insoluble matter in toluene, maximum percent by weight	0.05	0.05	D269
Softening point, °C, minimum	70	67	E28
Acid number, minimum	160	150	D465
Saponification number, minimum	166	162	D464

3.2 Type II rosin, physical and chemical characteristics shall conform to applicable physical and chemical characteristics of table II when tested as specified therein.

3.2.1 Particle size. Weigh  $100 \pm 1$  g of the specimen into a large container and add approximately 1 liter of distilled water. Stir the rosin thoroughly in the water to separate all particles. Wash the rosin onto a 2.36 mm sieve conforming to ASTM E11 with a gentle stream of water while gently brushing, with a camel's hair brush, any matter retained on the sieve. No rosin shall remain on the sieve.

3.2.2 Heat test. Weigh approximately 5 g of the specimen into a test tube and stopper lightly. Place the test tube in a water bath at  $57 \pm 1^\circ\text{C}$  to the depth of the rosin in the test tube and let stand for 2 hours. Remove the test tube, wipe off the outside water, and gently tap with a pencil. Turn the contents out onto a sheet of paper or a flat dish. There shall be no aggregate lumps in the powdered material.

TABLE II. Physical and chemical characteristics of type II rosin.

Characteristic	Requirement		ASTM test method
	All grades except FF	Grade FF	
Grade <sup>(1)</sup>	As specified	As specified	D509
Insoluble matter in toluene, maximum percent by weight	10.0	10.0	D269
Softening point, °C, minimum <sup>(1)</sup>	70	67	E28
Acid number, minimum <sup>(1)</sup>	160	150	D465
Saponification number, minimum <sup>(1)</sup>	166	162	D464
Particle size	100% pass 2.36 mm sieve	100% pass 2.36 mm sieve	3.2.1
Heat test	Uncongealed and free from lumps	Uncongealed and free from lumps	3.2.2

<sup>(1)</sup>Test to be performed on lumped type I rosin before grinding.

#### 4. REGULATORY REQUIREMENTS.

4.1 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR). Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this commercial item description are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term “recovered materials” means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. Unless otherwise specified, none of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this commercial item description.

4.2 Material safety data sheet (MSDS). An MSDS shall be prepared and furnished in accordance with 29 CFR 1910.1200 and submitted as directed in the contract or order at time of acquisition award.

## 5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The product provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.2 Market acceptability. The item offered must have been sold to the government or commercial market.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

## 7. NOTES

(This section contains information of a general or explanatory nature which is helpful, but is not mandatory.)

### 7.1 Source of documents.

7.1.1 American Society for Testing and Materials standards may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.1.2 The Code of Federal Regulations and the Federal Acquisition Regulation may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-0001.

7.1.3 Naval Stores Act of 1923 (42 Stat 1435.7 USC-91-92), as amended in 1951, may be obtained from the Agricultural Market Service, Tobacco Division, U.S. Department of Agriculture, P.O. Box 96456, Washington, DC 20090-6456.

### 7.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this commercial item specification.
- b. Unit and quantity required.
- c. Packaging requirements.

7.3 National stock number (NSN). Table III lists the NSNs that correspond to this commercial item description. This list may not be indicative of all possible NSNs associated with this document.

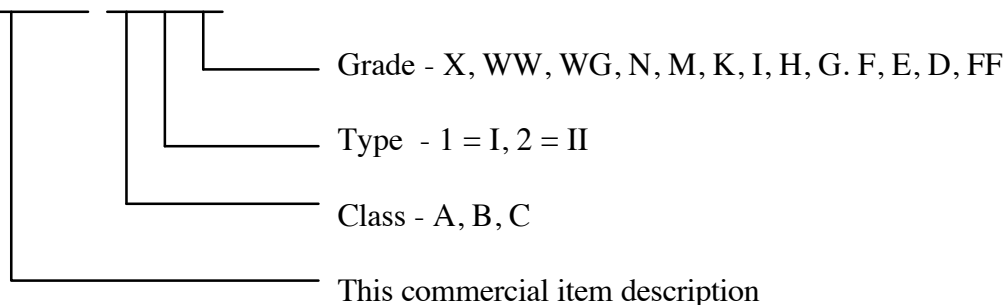
Table III. Class, type, grade, and unit of issue by NSN.

NSN 6810-00-	Class	Type	Grade	Unit of Issue
068-8866	B	II	FF	250 lb drum
244-4862	A	I	D	500 lb drum
256-8327	A	I	F	10 lb can
264-6700	A	II	X or WW	1 lb can
951-2293	A	II	WW	1 lb jar

7.4 Part identification number (PIN). The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

This example describes a part numbering system for CID A-A-59142.

AA59142 - A II FF



7.5 Subject term (key word) listing.

Gum  
Rosin  
Tall oil  
Wood

7.6 Sources of supply. The following companies produce products known to meet the requirements. Competition is not limited to these suppliers.

7.6.1 Class A - Gum rosin.

Company	Grade
Akzo Nobel Coatings Incorporated P.O. Box 349 Highway 341 East Baxley, GA 313513 (912) 367-3616	WW, WG, N, M
Hercules Incorporated Resins Division Hercules Plaza Wilmington, DE 19894 (800) 235-0543	WG

7.6.2 Class B - Wood rosin.

Company	Grade
Hercules Incorporated Resins Division Hercules Plaza Wilmington, DE 19894 (800) 235-0543	FF

7.6.3 Class C - Tall oil.

Company	Grade
Arakawa Chemical (USA) Inc. 625 North Michigan Avenue Suite 1700 Chicago, IL 60611 (312) 642-1750	X
Arizona Chemical Division International Paper Caller Box 2447 Panama City, FL 32402 (904) 785-8521	X

Union Camp Corporation  
1600 Valley Road  
Wayne, NJ 07470  
(800) 733-1374

X

Georgia Pacific Resin, Inc.  
2883 Miller Road  
Decatur, GA 30035  
(770) 593-6800

WW

MILITARY INTERESTS:

CIVIL AGENCY  
COORDINATING ACTIVITIES:

Custodians

Army - EA  
Air Force - 68  
Navy - OS

GSA - 10FTE

Preparing Activity:  
DLA - GS

Reviewers

Army - MD1, MI

(Project Number 6810-1578)