

**METRIC**

MIL-P-24380B(SH)

25 January 1989

SUPERSEDING

DOD-P-24380A(SH)

21 November 1977

(See 6.9)

## MILITARY SPECIFICATION

## PAINT, ANCHOR CHAIN, SOLVENT TYPE, GLOSS BLACK (METRIC)

This specification is approved for use within the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

## 1. SCOPE

1.1 Scope. This specification establishes the requirements for a fast drying, solvent type, gloss black paint for application on steel anchor chains.

1.2 Classification. The paint shall be of the following types, as specified (see 6.2.1):

Type I - Paint with non-photochemically reactive solvents  
(see 3.3.1.1).

Type II - Paint with maximum solvent amount of 340 grams  
per liter (see 3.3.1.2).

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

## SPECIFICATIONS

## FEDERAL

PPP-F-320 - Fiberboard; Corrugated and Solid, Sheet Stock  
(Container Grade), and Cut Shapes.

PPP-P-1892 - Paint, Varnish, Lacquer, and Related Materials;  
Packaging, Packing, and Marking of.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 5523, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8010

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

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MILITARY

- MIL-F-16884 - Fuel, Naval Distillate.
- MIL-L-19140 - Lumber and Plywood, Fire-Retardant Treated.

STANDARDS

FEDERAL

- FED-STD-141 - Paint, Varnish, Lacquer and Related Materials:  
Methods of Inspection, Sampling and Testing.
- FED-STD-313 - Material Safety Data, Transportation Data and  
Disposal Data for Hazardous Materials Furnished to  
Government Activities.
- FED-STD-595 - Colors.

2.1.2 Other Government document. The following other Government document forms a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

DEPARTMENT OF LABOR

- Code of Federal Regulations (CFR)
- 29 CFR, Part 1910.1200 - Hazard Communication Standard.

(The Code of Federal Regulations (CFR) and the Federal Register (FR) are for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. When indicated, reprints of certain regulations may be obtained from the Federal agency responsible for issuance thereof.)

(Copies of specifications, standards and other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted shall be those listed in the issue of the DoDISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS shall be the issue of the non-government document which is current on the date of the solicitation.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- A 108 - Standard Specification for Steel Bars, Carbon, Cold-Finished, Standard Quality. (DoD adopted)
- B 117 - Standard Method of Salt Spray (Fog) Testing.  
(DoD adopted)
- D 93 - Standard Test Methods for Flash Point by Pensky-Martens Closed Tester. (DoD adopted)
- D 1200 - Standard Test Method for Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup. (DoD adopted)

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ASTM (Continued)

- D 1644 - Standard Test Methods for Nonvolatile Content of Varnishes. (DoD adopted)
- D 1849 - Standard Test Method for Package Stability of Paint. (DoD adopted)
- D 1951 - Standard Test Method for Ash in Drying Oils and Fatty Acids. (DoD adopted)
- D 3359 - Standard Test Methods for Measuring Adhesion by Tape Test. (DoD adopted)

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

(Nongovernment standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

3.1 First article. When specified in the contract or purchase order, a sample shall be subjected to first article inspection (see 4.3 and 6.3).

#### 3.2 Material.

3.2.1 Formula. The paint shall be composed of chlorinated rubber and plasticizer dissolved in solvents. Solvents shall conform to the requirements of 3.3.1. Carbon tetrachloride and benzene shall not be used. Asbestos and components containing asbestos are prohibited. When specified in the contract or order, a certificate of compliance shall be prepared (see 6.2.2).

3.2.2 Recovered materials. Unless otherwise specified herein, all material incorporated in the paint covered by this specification shall be new and may be formulated using materials produced from recovered materials to the maximum extent practicable without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid or liquid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used products is allowed under this specification unless otherwise specifically specified.

3.2.3 Toxicity. The material shall have no adverse effect on the health of personnel when used for its intended purpose (see 4.2.2). The manufacturer of the material shall disclose the formulation of his product to the Navy Bureau of Medicine and Surgery, Navy Department, Washington, DC 20372. This disclosure of

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proprietary information, which will be held in confidence by the Bureau of Medicine and Surgery, shall include: the name, formula, and approximate percentage by weight and volume of each ingredient in the product; the results of any toxicological testing of the product; identification of its pyrolysis products; and any other information that may be needed to permit an accurate appraisal of any toxicity problem associated with the handling, storage, application, use, or disposal of material. Questions pertinent to this effect shall be referred by the contracting activity to the Naval Medical Command (NAVMEDCOM) which will act as advisor to the contracting activity.

3.2.4 Material safety data sheet. The contracting activity shall be provided a material safety data sheet (MSDS) at the time of the contract award. The MSDS shall be provided in accordance with the requirements of FED-STD-313 and 29 CFR 1910.1200, Hazard Communication Standard. When FED-STD-313 is at variance with the CFR, 29 CFR 1910.1200 shall take precedence. FED-STD-313 shall be modified and supplemented accordingly. The MSDS shall be included with each shipment of the material covered by this specification (see 6.7).

3.3 Quantitative requirements. The paint shall conform to the quantitative requirements shown in table I and as specified herein.

TABLE I. Quantitative requirements.

Characteristic	Requirements	
	Minimum	Maximum
Ash content, percent by weight of paint	----	5
Viscosity, no. 4 Ford cup at 25°C (77°F), seconds	32	40
Nonvolatile matter, percent by weight of paint	30	40
Matter insoluble in hot toluene, percent by weight of paint	----	5
Flash point, °C(°F)	30(86)	----
Draining time, minutes	----	5
Drying time - set to touch, minutes	----	15
dry hard, minutes		60

3.3.1 Solvent. The solvent shall conform to the requirements herein specified.

3.3.1.1 Type I solvent shall conform to the following requirements:

- (a) A combination of hydrocarbons, alcohols, aldehydes, ethers, esters, or ketones having an olefinic or cycloolefinic type of unsaturation except perchloroethylene: 5 percent maximum.
- (b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene, methyl benzoate, and phenyl acetate: 8 percent maximum.
- (c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene, or toluene: 20 percent maximum.

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3.3.1.2 Type II paint shall have a maximum volatile organic content (less water) of 340 grams per liter.

3.4 Qualitative requirements. The paint shall conform to the qualitative requirements specified herein.

3.4.1 Dry opacity. A maximum of 7.0 milliliters (mL) per 0.948 square meter of the paint shall be required to obtain a dry film contrast ratio of 0.92 (see 4.5.9).

3.4.2 Color and gloss. The color and gloss of the paint shall match the dry color chip no. 17038 of FED-STD-595 (see 4.5.10).

3.4.3 Appearance. The material shall appear smooth, uniform, and free from dirt, grit, clots, gel bodies, or other insoluble matter (see 4.5.11).

3.4.4 Heat resistance. The dry film shall not deform, blister, crack, emit odors, or exhibit any visible evidence of deterioration and shall show no transfer of paint (see 4.5.12).

3.4.5 Salt spray resistance. Test specimens shall show a maximum of 3.0 milligrams dissolved iron (see 4.5.13).

3.4.6 Oil resistance. The dried paint film shall show no loss of adhesion (see 4.5.14).

3.4.7 Adhesion. The dried paint film shall show no loss of adhesion (see 4.5.15).

3.4.8 Stability.

3.4.8.1 Filled containers. The paint, as received in its filled original container, shall be readily mixable, either by paddle, shaker, or mechanical stirrer, to a smooth, uniform consistency and shall conform to all requirements as specified herein. The paint shall not curdle, liver, gel, seed or develop any other objectionable properties for a minimum of 1 year after date of manufacture (see 4.5.16.1). The Government at its option and at any time not to exceed 1 year after manufacture, may test paint stored in its original containers for product condition, viscosity, and dry hard time (any action by the Government to reject the paint after prior acceptance will be based on the examination of the paint stored in its original containers).

3.4.8.2 Partially filled containers. Paint shall show no evidence of skinning (see 4.5.16.2).

3.5 Identification markings. Unless otherwise specified (see 6.2.1), each container shall be legibly and permanently marked with the following information.

- (a) Specification number.
- (b) Manufacturer's name.
- (c) Manufacturer's product identification.

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- (d) "The volatile content of the material in this container is not photochemically reactive as defined by Rule 102 of the South Coast Air Quality Management District"
- (e) "Asbestos Free".

Markings shall be prominently visible and shall be not less than 3/8 inch in height.

3.6 Workmanship. The component raw materials shall be mixed and ground as required to produce a product which is uniform, free from dirt and grit, and in conformance with the requirements of this specification.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspections set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- (a) First article inspection (see 4.3).
- (b) Quality conformance inspection (see 4.4).

4.2.1 Inspection conditions. Unless otherwise specified (see 6.2.1), all inspections shall be performed in accordance with the test conditions specified herein.

4.2.2 Toxicological formulations. The contractor shall have the toxicological formulation and associated information available for review by the contracting activity to evaluate the safety of the material for the proposed use.

4.3 First article inspection. First article inspection shall consist of the examination and tests specified in table II (see 6.3). When specified in the contract or order, a first article inspection procedure and report shall be prepared (see 6.2.2).

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TABLE II. First article inspection.

Inspection	Requirement	Test method
Toxicity	3.2.3	4.2.2
Ash content	table I	4.5.2
Viscosity	table I	4.5.3
Nonvolatile matter	table I	4.5.4
Matter insoluble in hot toluene	table I	4.5.5
Flash point	table I	4.5.6
Draining time	table I	4.5.7
Drying time	table I	4.5.8
Dry opacity	3.4.1	4.5.9
Color	3.4.2	4.5.10
Gloss	3.4.2	4.5.10
Appearance	3.4.3	4.5.11
Heat resistance	3.4.4	4.5.12
Salt spray resistance	3.4.5	4.5.13
Oil resistance	3.4.6	4.5.14
Adhesion	3.4.7	4.5.15
Stability	3.4.8	4.5.16
Inspection of packaging	5.1	4.6

4.4 Quality conformance inspection. The coating shall be tested in accordance with the applicable methods specified in table III and as specified herein. Additional chemical and physical tests shall be conducted as necessary to determine that the coating is in full compliance with the requirements of this specification. Failure of any sample to pass any test and noncompliance with the requirements of this specification shall be cause for rejection of the lot represented by the sample.



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TABLE III. Quality conformance inspection.

Inspection	Requirement	Test method
Group A		
Viscosity	table I	4.5.3
Appearance	3.4.3	4.5.11
Stability	3.4.8	4.5.16
Group B		
Ash content	table I	4.5.2
Nonvolatile matter	table I	4.5.4
Drying time	table I	4.5.8
Dry opacity	3.4.1	4.5.9
Color	3.4.2	4.5.10
Gloss	3.4.2	4.5.10
Heat resistance	3.4.4	4.5.12
Salt spray resistance	3.4.5	4.5.13
Oil resistance	3.4.6	4.5.14
Adhesion	3.4.7	4.5.15
Group C		
Matter insoluble in hot toluene	table I	4.5.5
Flash point	table I	4.5.6

4.4.1 Sampling.

4.4.2 Lot. A lot shall consist of all paint of the same formula number from a single uniform batch, or uniform blend of batches offered for delivery at one time.

4.4.3 Samples. Three samples per lot shall be selected at random from the filled container and tested in accordance with all specified requirements. Each sample shall be of sufficient quantity to perform all of the first article or the quality conformance tests specified in 4.5.

4.4.4 Preparation for sampling. Prior to taking a sample, the paint container lid shall be removed and the paint mixed to ensure a smooth and uniform consistency.

4.4.5 Ingredient materials. When specified in the contract or order (see 6.2.1), 1 pint of each ingredient in the formula shall be provided for test purposes.

4.4.6 Acceptance. Acceptance of the paint shall be based upon compliance of the paint with the requirements of this specification. Failure to pass any test shall be cause for rejection of the lot.

4.4.7 Lot tests. The samples selected as specified in 4.4.3 shall be subjected to the tests specified in 4.5.1 through 4.5.16. Failure in any test shall be cause for rejection of the lot.



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4.4.8 Noncompliance. If a sample fails to pass all of the inspections in groups B and C, the contractor shall notify the contracting activity and the cognizant inspection activity of such failure and take corrective action on the materials or processes, or both, as warranted, and on all units of product which can be corrected and which are manufactured under essentially the same materials and processes, and which are considered by the contracting activity to be subject to the same failure. Acceptance and shipment of the product shall be discontinued until corrective action acceptable to the contracting activity has been taken. After the corrective action has been taken, all of the inspections in groups B and C shall be repeated on additional sample units (all tests and examinations, or the test which the original sample failed, at the option of the contracting activity). Group A inspections may be performed again, but final acceptance and shipment shall be withheld until group B and C inspections have shown that the corrective action was successful. In the event of failure after reinspection, information concerning the failure shall be furnished to the cognizant inspection activity and to the contracting activity.

4.5 Tests. Test procedures shall be as specified in 4.5.1 through 4.5.16.

4.5.1 Test specimen preparation. Test specimens shall be prepared as follows. Prepare 10 steel rod substrates as shown on figure 1. Suspend each rod by means of the string loop in a vertical position over the chain paint to be tested. Completely dip the rod into the paint and allow the rod to dwell for 15 seconds. Withdraw the rod completely from the solution using a withdrawal rate of 30.48 centimeters (cm) (12 inches) per 36 seconds, with a smooth, uniform movement, entirely free from vibration. (Determine at this point draining and drying time of two test specimens in accordance with 4.5.7 and 4.5.8.) After the paint has completely drained (when no more drops of paint leave the bottom tapered point), suspend the rod in a clean atmosphere at room temperature. Repeat this procedure for the remaining rods. Allow the coated rods to dry for 3 days.

4.5.2 Ash content. Ash content shall be determined as follows. Weigh by difference  $8.0 \pm 0.1$  grams of the thoroughly mixed paint sample into a tared, 40-mL porcelain crucible. Evaporate to dryness at 104 degrees Celsius ( $^{\circ}\text{C}$ ) (220 degrees Fahrenheit ( $^{\circ}\text{F}$ )) in a well-ventilated oven. Cover crucible and determine ash content in accordance with ASTM D 1951.

4.5.3 Viscosity. Viscosity shall be determined in accordance with ASTM D 1200.

4.5.4 Nonvolatile matter. Nonvolatile matter shall be determined in accordance with ASTM D 1644.

4.5.5 Matter insoluble in hot toluene. Matter insoluble shall be determined in hot toluene in accordance with method 5221.1 of FED-STD-141, using toluene as the solvent. Caution: The solvent is flammable and has a low flash point. Calculate as percent by weight, based on the weight of total paint sample, not on nonvolatile content.

4.5.6 Flash point. Flash point shall be determined in accordance with ASTM D 93.

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4.5.7 Draining time. Draining time shall be determined as follows. At the moment of complete withdrawal from the paint (see 4.5.1), start timing the drainage period with a stopwatch. Determine the time it takes each of the last few drops to fall from the bottom tapered point of the rod. The end point for the draining time is determined when the last drop falls from the test rod. Run in duplicate and determine the average of the draining times obtained.

4.5.8 Drying time. Paint shall dry at constant temperature and humidity conditions. Drying time shall be determined in accordance with method 4061.2 of FED-STD-141, except that the specified conditions of temperature and humidity shall apply only for referee tests in case of dispute. Other tests shall be conducted under prevailing laboratory conditions.

4.5.9 Dry opacity. Dry opacity shall be determined in accordance with method 4121.1 of FED-STD-141. Specimens shall meet the requirements specified in 3.4.1.

4.5.10 Color and gloss. Color and gloss shall be determined as follows. Prepare test panel by applying a single drawdown coat of the paint to a planar piece of opaque white glass using a doctor blade with a clearance of 0.152 millimeter (mm) (0.006 inch) that shall give a wet film thickness of approximately 0.076 mm (0.003 inch). The coated panel shall be allowed to dry 24 hours under prevailing laboratory conditions before comparing with the standard color card as specified in method 4250.1 of FED-STD-141. Specimens shall meet the requirements specified in 3.4.2.

4.5.11 Appearance. A sample of thoroughly mixed paint shall be poured on a clean, clear glass plate and plate shall be placed in a vertical position until the excess paint has completely drained off. The film shall be examined under reflected light for compliance with 3.4.3.

4.5.12 Heat resistance. Heat resistance shall be determined as follows. Place two coated steel rod specimens (prepared as specified in 4.5.1) into an oven maintained at  $71 \pm 2^{\circ}\text{C}$  ( $160 \pm 5^{\circ}\text{F}$ ) for 1 hour. (If desired, specimens remaining from the drying time determination (see 4.5.8) may be used for this test.) While still in the oven, carefully examine the specimens visually. Remove from oven and wipe vigorously with a small wad of tissue paper. The specimens shall meet the requirements specified in 3.4.4.

4.5.13 Salt spray resistance. Salt spray resistance tests shall be conducted in accordance with ASTM B 117 and the specimens shall meet the requirements specified in 3.4.5.

4.5.14 Oil resistance. Oil resistance shall be tested as follows. Immerse the bottom 15.24 cm (6 inches) of two coated rods in separate containers of marine diesel fuel oil conforming to MIL-F-16884. Similarly, immerse two other coated rods in white, heavy mineral oil or "Nujol", having a Saybolt viscosity of 360 to 390 seconds at  $37.8^{\circ}\text{C}$  ( $100^{\circ}\text{F}$ ), and a specific gravity of 0.880 to 0.900 at  $15.6^{\circ}\text{C}$  ( $60^{\circ}\text{F}$ ). Allow the rods to remain in the oils at room temperature for 24 hours. Remove the samples and remove all signs of oil from the immersed portions of film with soft tissue paper or soft, clean cloths. Examine the immersed areas and compare them with the areas that were not exposed to the oil. Examine immersed areas for compliance with 3.4.6.

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4.5.15 Adhesion. Adhesion tests shall be conducted in accordance with ASTM D 3359 and the specimens shall meet the requirements specified in 3.4.7.

4.5.16 Stability.

4.5.16.1 Filled containers. Container contents shall be tested in accordance with ASTM D 1849 (NOTE 2). Paint shall meet the requirements specified in 3.4.8.1.

4.5.16.2 Partially filled containers. Container contents shall be tested in accordance with FED-STD-141, method 3021. Test duration shall be 1 week (7 days). Paint shall meet the requirements specified in 3.4.8.2.

4.6 Inspection of packaging. Sample packages and packs, and the inspection of the preservation, packing, and marking for shipment, stowage, and storage shall be in accordance with the requirements of section 5 and the documents specified therein.

## 5. PACKAGING

(The packaging requirements specified herein apply only for direct Government acquisition.)

5.1 Packaging requirements. Unless otherwise specified (see 6.2.1), the paint shall be furnished in 1-gallon cans or 5-gallon pails as specified (see 6.2.1). The paint shall be packaged level A, B or C; packed level A, B, or C as specified (see 6.2.1) and marked (see 3.5) in accordance with PPP-P-1892 and shall include bar codes, flash point marking and applicable packaging acquisition options therein as specified (see 6.2.1). In addition, for Navy acquisitions, the following applies:

### (a) Navy fire-retardant requirements.

- (1) Treated lumber and plywood. When specified (see 6.2.1), all lumber and plywood including laminated veneer material used in shipping container and pallet construction, members, blocking, bracing, and reinforcing shall be fire-retardant treated material conforming to MIL-L-19140 as follows:

Level A and B - Type II - weather resistant

Category 1 - general use.

Level C - Type I - non-weather resistant

Category 1 - general use.

- (2) Fiberboard. When specified (see 6.2.1), fiberboard used in the construction of class-domestic, non-weather resistant fiberboard, and cleated fiberboard boxes including interior packaging forms such as die-cuts, cells, pads, separators, and partitions where required shall meet the flame spread index and the specific optic density requirements of PPP-F-320 and amendments thereto.

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5.2 Material safety data sheet. A copy of the material safety data sheet shall be attached to the shipping document for each destination (see 3.2.4).

## 6. NOTES

6.1 Intended use. This paint is intended for use as a coating for steel anchor chains. This product may be applied where air pollution regulations apply.

6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Type required (see 1.2).
- (c) First article sample, when required (see 3.1).
- (d) Identification markings required (see 3.5).
- (e) Inspection conditions, if other than as specified (see 4.2.1).
- (f) When ingredients are to be provided for test purposes (see 4.4.5).
- (g) Level of packaging and level of packing required (see 5.1).
- (h) Size of container required (see 5.1).
- (i) When fire-retardant requirements are not required (see 5.1).
- (j) Bar codes, flash point marking, and packaging acquisition options (see 5.1).
- (k) When fiberboard shall meet the flame spread index and specific optic density requirements of PPP-F-320 (see 5.1(a)).

6.2.2 Consideration of data requirements. The following Data Item Descriptions (DIDs) must be listed, as applicable, on the Contract Data Requirements List (DD 1423) when this specification is applied on a contract, in order to obtain the data, except where DOD FAR Supplement 27.475-1 exempts the requirements for a DD 1423.

<u>Reference paragraph</u>	<u>DID number</u>	<u>DID title</u>	<u>Suggested tailoring</u>
3.2.1	DI-E-2121	Certificate of compliance	----
4.3	DI-T-4901	First article inspection procedure	----
4.3	DI-T-4902	First article inspection report	----

The above DIDs were those cleared as of the date of this specification. The current issue of DOD 5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL), must be researched to ensure that only current, cleared DIDs are cited on the DD 1423.

6.3 First article. When a first article inspection is required, the item should be a first article sample. The first article should consist of one unit. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examinations, approval of first article test results and disposition of first articles. Invitations for bids should provide that the Government reserves the right to waive the requirement for samples for

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first article inspection to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract.

6.4 Level B packaging. Level B is intended to provide economical but limited protection and should be specified only when it is determined the paint will be held in covered storage not more than 1 year from date of initial packaging.

6.5 Acquisition. Paint should be purchased under this specification by volume, the unit being 1 U.S. gallon (231 cubic inches) at 15.5°C (60°F).

6.6 Volatile content. Although the container marking specifically refers to the South Coast Air Quality Management District, the paint may be used anywhere else a paint complying with 3.3 is allowed. This includes other air pollution control districts or similar areas controlling the emission of solvents into the atmosphere. Information regarding Los Angeles County Air Pollution Rules 102, 442, 443, and 1107 may be obtained from: South Coast Air Quality Management District, 9150 E. Flair Drive, El Monte, CA 91731.

6.7 Material safety data sheets. Contracting officers will identify those activities requiring copies of Material Safety Data Sheets (MSDS). Additional required Government information is contained in FED-STD-313. In order to obtain the MSDS, federal acquisition regulation (FAR) clause 52.223-3 must be in the contract.

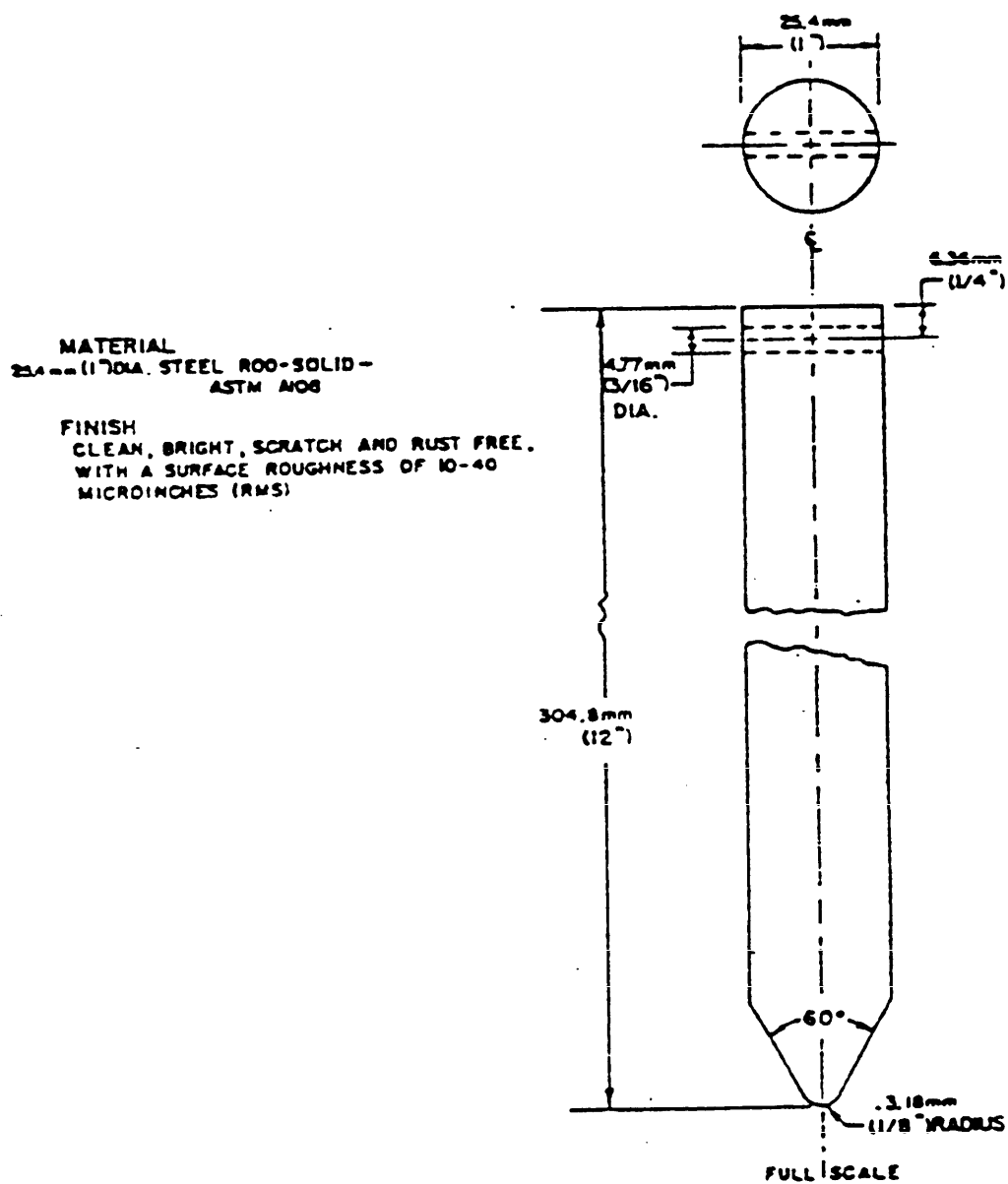
6.8 Subject term (key word) listing.

Benzene  
Carbon tetrachloride  
Chlorinated rubber  
Plasticizer

6.9 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Preparing activity:  
Navy - SH  
(Project 8010-N350)

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SH 9711

FIGURE 1. Steel rod test substrate.

**STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL***(See Instructions - Reverse Side)***1. DOCUMENT NUMBER**

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**2. DOCUMENT TITLE**

PAINT, ANCHOR CHAIN, SOLVENT TYPE, GLOSS BLACK (METRIC)

**3a. NAME OF SUBMITTING ORGANIZATION****4. TYPE OF ORGANIZATION (Mark one)**☐ **VENDOR**☐ **USER**☐ **MANUFACTURER**☐ **OTHER (Specify):** \_\_\_\_\_**b. ADDRESS (Street, City, State, ZIP Code)****5. PROBLEM AREAS****a. Paragraph Number and Wording:****b. Recommended Wording:****c. Reason/Rationale for Recommendation:****6. REMARKS****7a. NAME OF SUBMITTER (Last, First, MI) - Optional****b. WORK TELEPHONE NUMBER (Include Area Code) - Optional****c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional****8. DATE OF SUBMISSION (YYMMDD)**

(TO DETACH THIS LINE, CUT ALONG THIS LINE.)



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