



Standard Specification for Shipbuilders and Marine Paints and Coatings Product/ Procedure Data Sheet¹

This standard is issued under the fixed designation F718; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 The Shipbuilders and Marine Paints and Coatings Product/Procedure Data Sheet² provides on one sheet needed information concerning the characteristics of a specific paint or coating to include generic description, physical properties, surface preparation requirements, application requirements, and safety. The front side of the sheet contains four major, numbered paragraphs and a highlighted section for *Special Safety Precautions*. These paragraphs are as follows:

- I. Generic Type and Description
- II. Manufacturers Data
- III. Properties
- IV. Surface Preparation Minimum Requirements

The back side of the page contains the following paragraphs:

- V. Mixing Procedure
- VI. Application

1.2 The completed data sheets can be used by technical personnel to help evaluate the technical acceptability of a proposed material, by production personnel to evaluate production compatibility of proposed materials and to provide application instructions for selected paints and coatings materials, and by quality control personnel to verify attributes of materials.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This standard is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.01 on Structures.

Current edition approved July 1, 2022. Published July 2022. Originally approved in 1981. Last previous edition approved in 2017 as F718–07 (2017). DOI: 10.1520/F0718-22.

² Available from ASTM International Headquarters. Order Adjunct No. ADJF0718. Original adjunct produced in 1993.

2. Referenced Documents

2.1 ASTM Standards:³

- D56 Test Method for Flash Point by Tag Closed Cup Tester
- D93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
- D523 Test Method for Specular Gloss
- D1475 Test Method for Density of Liquid Coatings, Inks, and Related Products
- D1640 Test Methods for Drying, Curing, or Film Formation of Organic Coatings
- D2697 Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings
- D3278 Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus

2.2 ASTM Adjunct:

- Shipbuilder's and Marine Paints and Coatings Product/Procedure Data Sheets²

2.3 U.S. EPA Method:⁴

- 24 U.S. Environmental Protection Agency, 40 CFR Ch. 1, Part 60, Appendix A, Determination of Volatile Matter Content, Density, Volume Solids, and Weight Solids of Surface Coatings

3. Instructions for Completing Data Sheet

3.1 When filling out the Product/Procedure Data Sheet (see Figs. 1 and 2) remember that the information contained therein will be utilized by both technical and production personnel. Keep it simple and brief but complete. The following instructions are organized by paragraph numbers contained within the data sheet.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Available from U.S. Government Printing Office, Superintendent of Documents, 732 N. Capitol St., NW, Washington, DC 20401-0001, <http://www.access.gpo.gov>.



SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET NO. _____	
CONTINUATION SHEET USED: ☐ YES ☐ NO	
Date _____ Rev. _____	
I. GENERIC TYPE AND DESCRIPTION: Specification Number, Type, Class and/or Grade (If Applicable): _____	
II. MANUFACTURERS DATA:	
(a) MANUFACTURER: _____	(b) PRODUCT DESIGNATION: _____
(c) COLOR (S): _____	(d) USES: _____
(e) TECHNICAL SERVICE REPRESENTATIVE (Include telephone Nos): _____	(f) NOT RECOMMENDED FOR: _____
III. PROPERTIES:	
(a) % VOLUME SOLIDS (ASTM D2697): _____	
(b) % WEIGHT SOLIDS (ASTM D1475): _____	
(c) FLASH POINT (ASTM TEST METHOD D93 OR D56 OR D3278) _____	
(d) WEIGHT PER VOLUME (FTMS 141a4184.1): _____	
(e) % EDGE RETENTION (IF REQUIRED BY APPLICABLE SPECIFICATION – LIST TEST METHOD USED) _____	
(f) SHELF LIFE: _____	
(g) VISCOSITY (STATE TEST METHOD TO BE USED):	
COMPONENT A: _____	
COMPONENT B: _____	
MIXED: _____	
(h) PACKAGING: _____	
(i) NUMBER OF COMPONENTS: _____	
(j) GLOSS (ASTM D523) _____	
(k) STORAGE REQUIREMENTS: TEMP. MIN. _____ MAX. _____	
ADDITIONAL PAINT STORAGE REQUIREMENTS: _____	
(l) VOLATILE ORGANIC COMPOUND (VOC - EPA TEST METHOD 24): _____	
(m) WEIGHT OF DRY FILM (WEIGHT/FT ² AT 1 MIL THICKNESS): _____	
(n) SPECIAL PROPERTIES (e.g., STAIN RESISTANCE, LOW SOLAR ABSORBANCE, MOISTURE TOLERANCE): _____	
IV. SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPECIFIC STANDARD NUMBERS):	
(a) INITIAL - _____	
(b) TOUCH-UP - _____	
(c) PROFILE (INCLUDE METHOD USED) - _____ MIN. _____ MAX. _____	
(d) SPECIAL INSTRUCTIONS - _____	
(e) PRIMER REQUIREMENTS (IF APPLICABLE): _____	
(f) MAXIMUM ALLOWABLE CONDUCTIVITY (BRESTLE PATCH METHOD): _____	
(g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWABLE (LIST COMMERCIAL STANDARD): _____	
SPECIAL SAFETY PRECAUTIONS: _____	
(OVER)	

FIG. 1 Data Sheet (Front)