

CODE IDENT
10001

WS 1413

NAVAL ORDANCE SYSTEMS COMMAND

DEPARTMENT OF THE NAVY

PURCHASE DESCRIPTION

COMPOUND, CORROSION PREVENTIVE, ULTRA-THIN, TRANSPARENT

1. SCOPE

1.1 SCOPE - This purchase description covers an ultra-thin transparent water displacing, corrosion preventive compound which may be applied by aerosol, brush, dip or spray.

1.2 CLASSIFICATION - The corrosion preventive compounds shall be of the following types, as specified:

Type I - Aerosol Application

Type II - Brush, Dip or Spray Application

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids, form a part of this specification to the extent specified herein:

SPECIFICATIONS

FEDERAL

1. QQ-M-44 Magnesium Alloy, Plate and Sheet (AZ313)
2. PPP-C-96 Cans, Metal, 29 Gage and Lighter
3. QQ-A-250/4 Aluminum Alloy Plate and Sheet, 2024

FSC 8030

Naval Ships Engineering Station

-2-

August 11, 1972

<u>W/S 14138 Test</u>	<u>Requirement</u>	<u>#711 Results</u>
<u>18. Corrosion Test -</u> <u>MIL-C-23411A:</u>	<u>No Pitting or Etching -</u> <u>Limited Weight Loss:</u>	
<u>Metals</u>		
Brass	1.0	0.039 loss
Solder	20.0	0.910 loss
Zinc	7.5	0.006 gain
Magnesium	0.5	0.433 loss
Aluminum	0.2	0.009 gain
Steel	0.2	0.027 gain
<u>19. Leakage</u>	<u>None</u>	<u>None</u>
<u>20. Flash Point °F.</u>	<u>125° F. Min. TOC Type II (Bulk)</u> <u>Fed. Std. 791, 1103.6</u>	<u>130° F. Min.</u>
	<u>140° F. Min. TOC Type I (Aerosol)</u> <u>ASTM D 1318 55 T</u>	<u>140° F. Min.</u>
<u>21. Film Thickness</u>	<u>0.15 mils or less</u>	<u>0.15 mils max</u>
<u>22. Sprayability</u>	<u>Sprayable</u>	<u>Sprayable</u>
<u>23. Staining</u>	<u>None</u>	<u>None</u>
<u>24. Removability</u>	<u>Remove easily with P-D-680</u>	<u>Easily Removable</u>

In addition, we wish to state the following characteristics and qualities of our Product #711 Penetrant-Lubricant, Corrosion Inhibitor, Demoisturant:

COLOR, ASTMD 1500	3-1/2 L
API Gravity @ 60°F.	41.7
Specific Gravity, 60, 60°F.	0.8170
Viscosity, cs @ 100°F.	2.21
% Non-Volatile (Fed. Std. 791, 3480)	24.6
% Volatile (Fed. Std. 791, 3430)	75.4
Initial Boiling Point, °F.	250°F.
Pour Point, °F.	Below -85
Falex Step Test	More Than 750

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