

CODE IDENT  
10001

WS 1413

NAVAL ORDNANCE 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 (A231B)
2. PPP-C-96 Cans, Metal, 28 Gage and Lighter
3. QQ-A-250/4 Aluminum Alloy Plate and Sheet, 2024

FSC 8030

August 11, 1972

| <u>W/S 14138 Test</u>                | <u>Requirement</u>                                       | <u>#711 Results</u> |
|--------------------------------------|----------------------------------------------------------|---------------------|
| 8. Corrosion Test -<br>MIL-C-23411A: | No Pitting or Etching -<br>Limited Weight Loss:          |                     |
| <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          |
| 9. Leakage                           | None                                                     | None                |
| 10. Flash Point °F.                  | 125° F. Min. TOC Type II (Bulk)<br>Fed. Std. 791, 1103.6 | 130° F. Min.        |
|                                      | 140° F. Min. TOC Type I (Aerosol)<br>ASTM D 1310 55 T    | 140° F. Min.        |
| 11. Film Thickness                   | 0.15 mils or less                                        | 0.15 mils max.      |
| 12. Sprayability                     | Sprayable                                                | Sprayable           |
| 13. Staining                         | None                                                     | None                |
| 14. Removability                     | Remove easily with P-D-680                               | Easily Removable    |

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

|                                      |               |
|--------------------------------------|---------------|
| 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, 3480)     | 75.4          |
| Initial Boiling Point, °F.           | 250°F.        |
| Pour Pblnt, °F.                      | Below -85     |
| Falex Step Test                      | More Than 750 |

(Continued...)