

Coded Note Number: **Y1810**

Revision: **C002**

Date: **May 23, 2013**

Title: **EQUIPMENT USED IN SYSTEM CONTAINING WATER GLYCOL**

This equipment will be used in a system containing a water glycol base fluid (HOUGHTO-SAFE 273) according to Military Specification MIL-H-22072C, temperature range 60 DEG F – 140 DEG F. All material shall be compatible with the system fluid.

Seals – Equipment not previously approved for use on a CVN 68 Class ship shall have O-ring seals according to a MIL-R-83248 and MIL-R-83248/1 or other specifications as permitted by MIL-STD 2193. Use MIL-R-83248/2 (instead of MIL-R-83248/1 for bosses (i.e., 900 Series) where seal is subject to twisting and abrasion. Material for gaskets and seals on previously approved equipment shall be according to Military Specifications MIL-R-83248, MIL-G-23652 Type I, MIL-P-25732 or MIL-G-22050.

Cleanliness shall be achieved/maintained as follows:

- For piping, tubing, and fittings: By a Navy approved method according to Military Standard MIL-STD-419.
- For flexible hoses and hose assemblies: After hydrostatic testing and cleaning; flush with clean, hot water (between 130 DEG and 180 DEG F) for a period not less than five minutes nor more than ten minutes.

Flush straight through hose without recirculating water. Dry hose interior with compressed air (or other suitable means) and cap the ends immediately following the flush and drying.

This equipment is to be used in a hydraulic system that is filtered to 25 microns (absolute). The equipment or components are to be cleaned free of all dirt, grease, grit, shavings, etc, to this cleanliness level. After cleaning of the equipment or components, coat the interior surfaces of items containing ferrous parts with corrosive preventive compound **RUST VETO 4221NB** as manufactured by Houghton International Inc. and cap or plug all parts with metal plugs or blanks. (Cloth or wood is not permitted) Do not use seals to MIL-G-22050 for components preserved with Cosmoline 1095. Equipment or component coated with preventive compound Cosmoline 1095 shall be tagged with the following information:

The interior of this item is coated with corrosive preventive compound **RUST VETO 4221NB** as manufactured by Houghton International Inc. It was installed

on (date) and is to be re-preserved one year from this date if equipment or component has not been filled with hydraulic fluid. It is not necessary to completely remove this compound before installation and charging with fluid.

All hydraulic system components shall be held in covered storage and **preferably** in stowage where sudden changes in temperature and humidity do not occur.