



UNCLASSIFIED  
UNCONTROLLED DOCUMENT WHEN PRINTED - SYSADMIN 14-NOV-2002

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1. Intended use in submarines makes it mandatory that material furnished under this contract shall contain no metallic mercury and shall be free from mercury contamination. Mercury contamination of the material will be cause for rejection of the material.
2. If the inclusion of metallic mercury is required as a functional part of the material furnished under this contract, the contractor shall obtain written approval from the Contracting Officer before proceeding with manufacture. The contractor's request shall explain in detail the requirements for mercury; identify specifically the parts to contain mercury; and explain the method of protection against mercury escape. Such a request will be forwarded directly to the Contracting Officer with a copy to the applicable Government Inspector. Upon approval by the Contracting Officer, the vendor will provide a "Warning Plate" stating that metallic mercury is a functional part of the item and will include name and location of that part.
3. The use of mercury, mercury components or mercury bearing instruments and/or equipment in a manner which might cause contamination of the raw material or cause contamination during manufacture, assembly or test of materials on this contract is prohibited. The most probable causes of contamination are direct connected manometers, mercury vacuum pumps, mercury seals or the handling of mercury in the immediate vicinity. Mercury switches, mercury in glass thermometers, standard cells and other items containing mercury may be used if they are located so as not to constitute a contamination hazard.
4. If external contamination by metallic mercury occurs or is suspected, the following test may be used to determine whether contamination by metallic mercury exists or whether corrective cleaning measures have been effective. Enclose the equipment in a polyethylene bag or close-fitting air-tight container for eight hours at room temperature - 76 deg. F  $\pm$  10 deg. F. Sample the trapped air and if mercury vapor concentration is 0.01 mg/cu meter or more, the material is mercury contaminated insofar as the requirements of this contract is concerned.
5. The requirements of this document shall be included in any sub-contract or purchase order hereunder and the contractor will insure sub-contractor compliance with these requirements.

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6. Technical questions pertaining to the requirements of this document shall be referred to the Procurement Contracting Officer, via the cognizant Administrative Contracting Officer. For background, the following information is provided:

Mercury is corrosive to gold, silver, nickel, stainless steels, aluminum, and copper alloys. Stainless steels, nickel and copper alloys are widely used in reactor plants and other submarine systems. Accidental trapping of mercury in a component could cause serious damage to vital parts. Mercury is also toxic if inhaled, ingested or absorbed through the skin. It is evident that grave consequences could result from small amounts of mercury vapor present in an unreplenished submarine atmosphere.

7. The contractor shall provide evidence that the supplied item(s) is/are Mercury Free. The evidence shall be in documented form. The document shall contain the following information:

- (a.) Contract Number;
- (b.) National Stock Number;
- (c.) Manufacturer's Code (CAGE) and Part Number or the Specification/Drawing Number the item(s) are manufactured in accordance with;
- (d.) Date of shipment and quantity shipped, and;
- (e.) The following statement: "The undersigned hereby represents that the material and/or parts shipped on the subject order/contract conform to the requirements of your purchase order/contract. Also, the material furnished is free from mercury contamination. Mercury bearing instruments and equipment which might have caused mercury contamination were not used in the manufacture, fabrication, assembly, packaging or testing of any material furnished under this order/contract."

The representative document shall be signed by an authorized corporate or company officer. The original document shall be maintained by the contractor for a minimum of seven (7) years, with a copy supplied at time of shipment to the Contract Administrator for retention in the order/contract folder.

8. Items procured in accordance with this drawing shall be packaged in accordance with MIL-PRF-23199.

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