

METRIC

A-A-54697
13 July 1992

COMMERCIAL ITEM DESCRIPTION

THERMOMETER, SELF-INDICATING, LIQUID IN
GLASS, INCUBATOR, 0° TO 70°C

The General Services Administration has authorized the use of this Commercial Item Description as a replacement for Military Specification MIL-T-37594 which is cancelled.

This Commercial Item Description covers one type of partial immersion mercury in glass thermometer suitable for use in general medical incubators.

Salient characteristics:

General. The thermometer shall be a partial immersion mercury column in glass type, with a color background, that is graduated from 0° to 70°C in 1/2°C subdivisions. There shall be a bulb section which is used as a mercury reservoir, and joins the glass tubing stem with an integral glass collar having a diameter at least 1.8 mm larger than the diameter of the stem.

The diameter of the bulb shall be the same or less than the diameter of the stem. An expansion chamber shall be located at the top of the bore which shall permit the thermometer to reach a temperature of at least 100°C without breaking.

The bore shall be clean and moisture free. The entire thermometer shall be annealed to reduce strain in the glass.

AMSC N/A

FSC 6685

DISTRIBUTION STATEMENT A. Approved for public release;
distribution is unlimited.

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Style, design and dimensions. The dimensions and tolerances are as follows: Overall length is 335 mm ± 5 mm; stem diameter is 6.5 mm ± 0.5 mm; distance from bottom of thermometer to bottom of collar is 174 mm ± 4 mm; distance from bottom of collar to bottom of scale is 25 mm $+10/-5$ mm. Graduations and markings shall be permanently marked. Width of graduation lines shall not exceed 0.2 mm. The distance between lines shall be no less than 0.4 mm. Major graduations shall be spaced and numbered at 10° intervals. Graduation lines, numerals and identification marks shall be black except 37° and 56° graduations, which shall be red or indicated by an arrow. The manufacturer's trade mark or name shall be permanently marked on the glass.

Calibration. The partial immersion thermometer shall be calibrated at a stem immersion of 170 mm ± 2 mm.

Accuracy. The thermometer accuracy shall not vary more than 0.5°C when tested at a stem immersion length of 170 mm in a water testing bath at 20°C , 40°C and 60°C against a calibrated standard thermometer.

Workmanship. The thermometer shall be free from defects which detract from its appearance or impair its serviceability.

Unit. Each (EA). One thermometer, as specified, constitutes one unit. Each thermometer shall be packaged in a suitable container with sufficient cushioning to protect the contents from damage.

QUALITY ASSURANCE PROVISIONS.

Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

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Records. Records of examinations and tests performed by or for the contractor shall be maintained by the contractor and made available to the Government upon the Government's request, at any time, or from time to time, during the performance of the contract and for a period of three years after delivery of the supplies to which such records relate.

Inspection. Inspection, as used herein, is defined as both examination (such as visual or auditory investigation without the use of special laboratory appliances or procedures) and testing (determination by technical means of physical and chemical properties) of the item.

Examination and Testing. Examination and testing shall be conducted on the thermometer in accordance with commercial practice. The sampling for examination and testing shall be in accordance with commercial practice.

Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within the tolerances specified using conversion tables contained in the latest revision of Federal Standard No. 376, and all other requirements of this document are met.

If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch/pound units, a request should be made to the contracting officer to determine if the product is acceptable.

The contracting officer has the option of accepting or rejecting the product.

Contractor Certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and that the product conforms to the producers' own drawings, specifications, standards, and quality assurance practices. The government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

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Regulatory requirements.

Federal Food, Drug, and Cosmetic Act. If the product covered by this document has been determined by the U.S. Food and Drug Administration to be under its jurisdiction, the offeror/contractor shall comply, and be responsible for compliance by its subcontractors/suppliers, with the requirements of the Federal Food, Drug, and Cosmetic Act, as amended, and regulations promulgated thereunder. In addition, the offeror/contractor shall comply, and be responsible for compliance by its subcontractors/suppliers, with the requirements of all other applicable Federal, State, and local statutes, ordinances, and regulations.

Recovered material. The offeror/contractor is encouraged to use recovered material in accordance with Federal Acquisition Regulation Subpart 23.4 to the maximum extent practical.

Preservation, packaging, packing, labeling, and marking. Unless otherwise specified, preservation, packaging, and packing shall be to a degree of protection to preclude damage to containers and/or contents thereof under normal shipping conditions, handling, etc., involving shipment from the supply source to the receiving activity, plus reshipment from receiving activity, and shall conform to applicable carrier's rules and regulations. Intermediate and exterior package quantities and labeling and marking shall be as specified in the contract and/or order.

Ordering data. (Intermediate/exterior package quantities, labeling, and marking must be specified in the contract and/or order.)

NOTES:

The following National Stock Number is covered by this document:

<u>NSN</u>	<u>Item Identification</u>
6685-00-299-8496	THERMOMETER, SELF-INDICATING, LIQUID IN GLASS, INCUBATOR, 0° TO 70°C.

This thermometer is intended for use with the following items 6640-00-428-8120 INCUBATOR, BACTERIOLOGICAL, Large and 6640-00-428-9120 INCUBATOR, BACTERIOLOGICAL, Small.

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MILITARY INTERESTS:

Custodians:

Army-MD
Navy-MS
Air Force-03

PREPARING ACTIVITY:

DoD-MB

Agent:

DLA-DM

CIVIL AGENCY COORDINATING ACTIVITIES:

VA-OSS
USPHS
FDA-MPQAS

Project No. 6685-0881

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER A-A-54697	2. DOCUMENT DATE (YYMMDD) 13 JULY 1992
3. DOCUMENT TITLE THERMOMETER, SELF-INDICATING, LIQUID IN GLASS, INCUBATOR, 0° TO 70°C		
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (Last, First, Middle Initial)	b. ORGANIZATION	
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Include Area Code)	e. DAY (Commercial, ED, or Home)
	(1) Commercial	(2) AUTOVON
	(2) AUTOVON (if applicable)	
8. PREPARING ACTIVITY		
a. NAME Defense Personnel Support Center	b. TELEPHONE (Include Area Code)	
	(1) Commercial (215) 737-2870	(2) AUTOVON 444-2870
c. ADDRESS (Include Zip Code) ATTN: MSE 2800 S. 20th Street Philadelphia, PA 19145	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	