

A-A-53034
30 June 1987

COMMERCIAL ITEM DESCRIPTION

THERMOMETER, SELF-INDICATING, BIMETALLIC

The General Services Administration has authorized the use of this commercial item description.

This commercial item description covers a pocket size dial type thermometer having -40 to +160 degree Fahrenheit (F) scale.

Salient characteristics:

Shall be a self-indicating, dial type bimetallic thermometer. Shall be supplied with a carrying case that includes a pocket clip. The carrying case shall be fabricated from hard rubber or a rigid plastic.

The thermometer shall consist of a metal shaft (stem) that is attached to a dial frame with a calibration nut. The stem and frame shall be fabricated from corrosion-resistant stainless steel. The calibration nut shall be suitably resistant to corrosion.

The shaft shall be a housing for a bimetallic heat sensitive element, and shall have nominal dimensions of 5 long X 0.15 diameter (inches).

The dial frame shall have a nominal one (1) inch diameter, and shall be a housing for a graduated dial face, a dial pointer and a protective polycarbonate plastic covering.

The dial face graduations shall include a range of -40 to +160 degrees (F) in 2 degree (F) increments. Each 10 degree mark shall be larger than the intervening marks, and shall be indicated with an Arabic numeral. A thermometer that includes both a Fahrenheit and Centigrade scale shall be acceptable.

The thermometer shall be supplied ready for use, and shall provide thermometer readings that are accurate within ± 2 degrees (F) (see Quality Assurance Provisions). Scale adjustments shall be made without disassembling the thermometer and by gripping the calibration nut with a wrench and then turning the dial frame to the proper position.

AMSC N/A

FSC 6685

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

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In operation, the thermometer shall be instant recording and the time for a thermometer reading to rise from 50 to 160 degrees (F) shall not exceed 10 seconds (see Quality Assurance Provisions).

The thermometer shall be provided with printed instructions for use, adjustment and care of the 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.

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.

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.

Tests. Tests shall be conducted to determine compliance with specification requirements. Where feasible, the same sample shall be used for the determination of two or more test characteristics.

Accuracy testing. The thermometer shall be tested against a standard thermometer at 32 degrees (F), and at two additional temperature points so that there is at least a 50 degree difference between the middle and the other two readings. Sampling for testing shall be in accordance with MIL-STD-105 and an S-3 inspection level. The acceptance number shall be zero. Any thermometer reading that is not within ± 2 degrees of the standard thermometer reading shall be cause for rejection.

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Speed of response testing. The stem of the thermometer shall be immersed, in accordance with manufacturer's instructions, in a liquid bath having a temperature of 32 degrees (F). After the thermometer dial registers 32 degrees, the thermometer shall be removed and immediately immersed in a 212 degrees (F) liquid bath. The time for the thermometer reading to change from 50 degrees to 160 degrees (F) shall be determined. Sampling for inspection shall be in accordance with MIL-STD-105 and an S-1 inspection level. The acceptance number shall be zero. A thermometer whose speed of response exceeds 10 seconds for a 50 degree to 160 degree (F) temperature rise shall be cause for rejection.

Contractor certification. The contractor shall certify that the product offered meets the salient characteristics of this description and 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.

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.

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.

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Recovered materials. The offeror/contractor is encouraged to use recovered material in accordance with Public Law 94-580 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.

NOTE: The following National Stock Number is covered by this specification:

6685-01-189-3887

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

MILITARY INTERESTS:

Custodians:

Army - MD
Navy - MS
Air Force - 03

PREPARING ACTIVITY:

DoD - MB

Agent:

DLA-DM

CIVIL AGENCY COORDINATING ACTIVITY:

VA-OSS
PHS
FDA-MFGAS

Project No. 6685-0785

PGC 58462

Location: Disk # 5

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NOTE This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification 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.

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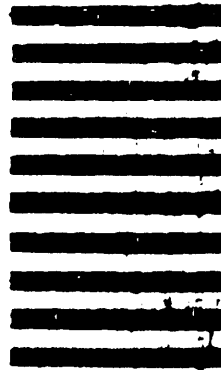
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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)*

1. DOCUMENT NUMBER A-A-53034	2. DOCUMENT TITLE THERMOMETER, SELF-INDICATING, BIMETALLIC
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3a. NAME OF SUBMITTING ORGANIZATION

4. TYPE OF ORGANIZATION (Mark one)

VENDOR

USER

MANUFACTURER

OTHER (Specify):

b. ADDRESS (Street, City, State, ZIP Code)

5. PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

c. Reason/Rationale for Recommendation:

6. REMARKS

7a. NAME OF SUBMITTER (Last, First, MI) - Optional

b. WORK TELEPHONE NUMBER (Include Area Code) - Optional

c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional

8. DATE OF SUBMISSION (YYMMDD)