

[METRIC]
A-A-2695A
February 01, 1995
Superseding
A-A-2695
August 16, 1990

**COMMERCIAL ITEM DESCRIPTION
PEN, ROLLERBALL**

The General Services Administration has authorized the use of this commercial item description by all federal agencies.

1. **Scope:** This commercial item description covers rollerball pens.

2. **Classification:**

Types: I. 0.3mm Rollerball (Ultra Fine)
 II. 0.5mm Rollerball (Micro Fine)
 III. 0.7mm Rollerball (Fine)

Colors: A. Black
 B. Blue
 C. Red
 D. Green

3. **Salient Characteristics:**

3.1. Pens shall consist of a barrel, removable cap, pocket clip, a point containing a non-corrosive ball and other components necessary to ensure compliance with this description.

3.2. Pens shall be assembled to seal the reservoir, thereby preventing wanted ink from escaping in either liquid or vapor form.

3.3. Pens shall contain inks in colors of black, blue, red, and green. Each pen shall have a colored cap insert or exhibit some designation indicating the color of ink containing therein.

3.4. Manufacturer's name, trademark, writing ball size, or current commercial pen marking shall be exhibited on the pen. Placement of these markings shall be at the option of the manufacturer, provided they are prominently legible.

3.5. Pens shall write smoothly by hand, and shall be reproducible by office copy machine which employ a visible light source in the reproduction process.

DISTRIBUTION STATEMENT A: Approved for public release;
Distribution is unlimited.

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3.6. The pocket clip shall prevent the inverted pen from falling free when the pen is placed in a shirt pocket.

3.7. **Workmanship:** Rollerball pens shall be securely assembled so that parts do not become loose or displaced and shall be free from defects and imperfections which may adversely affect appearance and serviceability.

3.7.1. **Shelf Life:** Pens shall have a shelf life of eighteen (18) months after delivery and shall be capable of withstanding normal usage and handling and pass the performance characteristics tests as outlined in paragraph 5.2.

4. Regulatory Requirements:

The offerer/contractor is encouraged to use recovered materials in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. Quality Assurance Requirements:

5.1. **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 producer's own drawings, specifications, standards, and quality assurance practices. The government reserves the right to require proof of such conformance prior to first delivery and therefore as may be otherwise provided for under the provisions of the contract.

5.1.2. **Responsibility For Inspection.** Unless otherwise specified in the contract or purchase order the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to 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 that supplies and services conform to prescribed requirements.

5.1.3. **Lot Definition:** Each lot of pens shall be inspected for conformance to the requirements herein. Inspection shall be in accordance with MIL-STD-105 using the sampling plans specified below. The lot shall be expressed in pens manufactured from the same materials, at essentially the same time.

5.1.4. **Examination Of End Product:** The sample unit for this examination shall be one pen. The inspection level shall be level S-4 with an Acceptable Quality Level (AQL) of 4.0% defects per hundred units expressed in terms of percent defective in accordance with MIL-STD-105 or with an approved Statistical Process Control (SPC) method.

5.1.5. **Tests:** Sampling for performance testing shall be performed in accordance with MIL-STD-105. The inspection level shall be level S-2 with an AQL of 4.0 percent defective or an approved (SPC) method.

5.2. Performance Characteristics Tests: Testing shall be performed on components whenever practical so long as recordkeeping renders adequate traceability. Unless otherwise specified tests shall be conducted in an atmosphere of 295.15 degrees Kelvin \pm 2 degrees Kelvin temperature (22 degrees Centigrade \pm 2 degrees Centigrade) and 60% \pm 12% in relative humidity. Test paper shall be 25 percent white bond paper have a pH of 4.8 -5.2 with a basis weight of 60 grams per square meter (16 pound, 17 x 22 - 500). A tolerance of 5% is allowable. Paper for the Machine Writing Test shall have an additional requirement of 160 - 140 seconds maximum smoothness on both sides using the Sheffield method per the most current TAPPI T479 test method.

5.2.1. Drying Time: Place a sheet of paper on a smooth, flat surface and partially cover with a second sheet of paper. Place a 200 gram weight on top of the second sheet of paper. Write a five letter word on the exposed portion of the bottom sheet, allow to dry (10) seconds, and immediately draw the top sheet and the weight across the writing at a rate of 10cm per second. The writing shall not be smeared when tested. Examine both sheets for compliance.

5.2.2. Cap Off: With the cap removed, expose the rollerball writing instrument to the atmospheric conditions specified in the performance characteristics tests for a period of 24 hours. Writeout requirements shall meet those specified in writing characteristics.

5.3. Machine Writing Test: The machine tests shall be conducted on the Anja Model W 10B or equivalent. The machine shall conform to each of the following conditions.

Writing Load:	0.853 - 0981 N (100gF)
Writing Angle:	60 degrees to 90 degrees (continuously varying)
Writing Speed:	670 cm plus or minus 10.0 cm/min.
Writing Pattern:	Circle

Condition 1. 168 hours (7 days) at 333.15 degrees Kelvin \pm 2 degrees Kelvin (49) degrees C \pm 2 degrees C in a chamber with the pen placed horizontally on an insulated shelf at 70 to 90 percent relative humidity.

Condition 2. 48 hours (2 days) in a chamber at 253.15 degrees Kelvin \pm 2 degrees Kelvin (minus 20 degrees C \pm 2 degrees C).

After being subjected to the above two conditions, the pen shall be written for a minimum distance of 1300 meters (4265 feet). Smooth writing shall start within the first 10 centimeters of the writeout without starvation or fluctuation of the line intensity. Visual defects include blobs, skips, dotting and density variations of line intensity. Actual length of each visual defect shall be totaled for each cartridge for the entire writeout and shall not exceed 1% of the written line.

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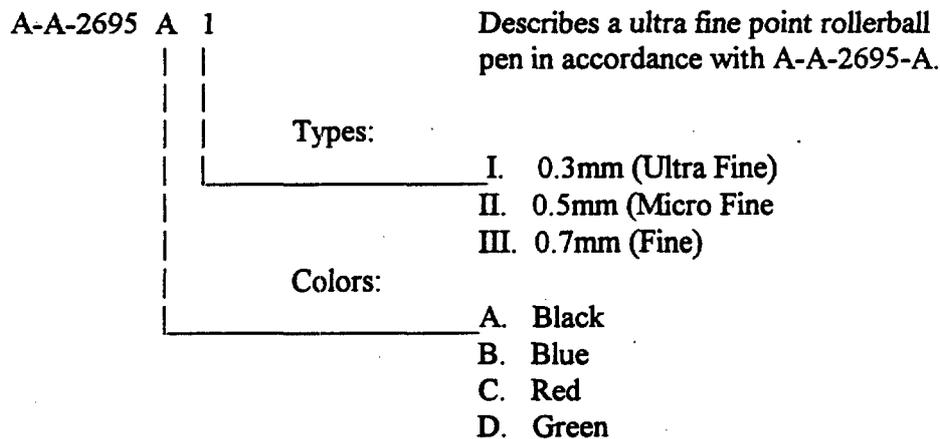
6. **Packaging:** Preservation, packing, and marking shall be specified in the contract or order.

6.1. **Additional Marking.** The unit and shipping containers shall include the date of manufacture and the date of reinspection (12 months after the date of manufacture).

7. **Notes:**

7.1. **Part Identification Number (PIN):**

The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.



7.1.2. **Applicable Documents.** Issues of the following documents, in effect on the date of invitation for bids or request for proposal, form a part of this document to the extent specified herein.

7.1.3. **Federal Acquisition Regulation (FAR):** may be obtained from the Superintendent of Documents, Government Printing Office, Washisnton, DC 20402.

7.1.4. **Technical Association of the Pulp and Paper Industry (TAPPI):** T479 method may be obtained from TAPPI, Technology Park/Atlanta, P.O. Box 105113, Atlanta, Georgia, 30348-5113.

7.2. **Military Standards:**

7.2.1. Military Standardization documents as well as the following publications are available from the Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, Pa 19111-5094

7.2.2. Mil-STD-105 Sampling Procedures and Tables for Inspection by Attributes.

7.3. Ordering Information. Purchaser should select the required options permitted herein, and include the following information in procurement documents:

- A. Title, number, and date of this commercial item description.
- B. Purchasers should specify the type and color required (See "Classification").
- C. Purchasers should specify arrangement for inspection and inspection facilities, if other than specified (see section VI).
- D. Purchasers should specify packaging, packing, and any special marking for shipment, if other than required (see section VI).
- E. Identification marking, if other than required.
- F. If bar code marking is not required.
- G. Purchasers should specify palletization, if required.

7.4. National Stock Number Listing.

7520-01-207-4264
7520-01-207-4265
7520-01-207-4266
7520-01-207-4267
7520-01-207-4268
7520-01-207-4269
7520-01-207-4270
7520-01-207-4271

MILITARY INTERESTS:

**PREPARING ACTIVITY
GSA-FSS**

NONE: DOD has determined that no military activity has an interest in this commercial item description.