U. S. Gov't Master Specification No. 235a

DEPARTMENT OF COMMERCE BUREAU OF STANDARDS George K. Burgess, Director

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UNITED STATES GOVERNMENT MASTER SPECIFICATION FOR RUBBER FOUNTAIN SYRINGE

FEDERAL SPECIFICATIONS BOARD SPECIFICATION No. 235a

[Revised June 1, 1925]

This specification was officially promulgated by the Federal Specifications Board on November 5, 1924, for the use of the Departments and Independent Establishments of the Government in the purchase of rubber fountain syringes.

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I. TYPE

Syringes shall be rapid flow, 2-quart type. Cloth-inserted syringes are considered in Federal Specifications Board Specification No. 234a.

II. MATERIAL AND WORKMANSHIP

Syringes shall be made with rubber walls reinforced at seams and edges. The surface shall be smooth and free from pits and other imperfections. An embossed surface will not be acceptable.

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III. GENERAL REQUIREMENTS

No details specified.

IV. DETAIL REQUIREMENTS

1. THICKNESS OF WALL.—The thickness of the wall shall be 0.030 inch, with a tolerance of ± 0.005 inch.

2. SUSPENSION TAB.—At the top of the syringe there shall be a suspension tab having a noncorrosive reinforced eye which shall show no appreciable distortion or displacement when supporting the filled fountain syringe.

3. Accessories.—(a) Tubing.—Five feet of rubber tubing, $\frac{1}{4}$ inch inside diameter, minimum wall thickness 0.055 inch, shall be furnished with each fountain syringe.

(b) Hard rubber connection piece.—There shall be a hard rubber connection piece at outlet end, cemented and reinforced. The connection piece shall extend at least $\frac{5}{8}$ inch beyond syringe, and shall be round nosed for the purpose of attaching to rubber tubing.

(c) Hard rubber adapter.—A hard-rubber adapter shall be fitted into distal end of tubing for a distance of $\frac{1}{2}$ inch. The adaper shall make a tight fit with the tubing and be fitted with a screw thread for attachment of threaded irrigating nozzles.

(d) Irrigating nozzles.—There shall be three irrigating nozzles one rectal which shall be at least $2\frac{1}{4}$ inches long, one rectal at least 3 inches long, and one bent vaginal at least $5\frac{1}{2}$ inches long. Irrigating nozzles shall be provided with screw threads.

(e) Metal tube clamp.—A metal tube clamp shall be furnished with each fountain syringe.

4. RUBBER CONTENT.—The rubber compound in syringe and tubing shall contain at least 65 per cent by volume of best quality new wild or plantation rubber.

5. TENSILE STRENGTH AND ULTIMATE ELONGATION.—See the table.

6. RESISTANCE TO HOT WATER.—Samples shall be submerged in boiling water for seven days. Twenty-four hours after removal the tensile strength and elongation shall conform to the requirements in the table.

7. RESISTANCE TO HOT AIR.—Samples shall be aged in a drying oven in circulating air at 70° C. for seven days. Twenty-four hours after removal the tensile strength and elongation shall conform to the requirements in the table.

SPECIFICATION FOR RUBBER FOUNTAIN SYRINGE

Sample .	Tensile strength, mini- mum	Ultimate elonga- tion, mini- mum
As received	Lbs./in. ² 1,600 600 800	Per cent 400 350 200

Tensile strength and ultimate elongation

V. SAMPLING

One fountain syringe shall be selected from each 100 delivered for test and analysis.

VI. PACKING AND MARKING

Each syringe shall have the manufacturer's name or trade name vulcanized in raised letters. Packing shall be as called for in the proposal.

VII. ADDITIONAL INFORMATION

No details specified.

VIII. GENERAL SPECIFICATIONS

General Specifications for Rubber Goods, F. S. B. Specification No. 59a, in effect on date of issuance of proposal, shall form part of this specification.

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