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

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UNITED STATES GOVERNMENT MASTER SPECIFICATION FOR
CLOTH-INSERTED FOUNTAIN SYRINGE

FEDERAL SPECIFICATIONS BOARD SPECIFICATION No. 234a

[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 cloth-inserted fountain syringes.

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I. TYPES

Syringes shall be rapid flow, 2-quart type. Rubber fountain syringes are considered in Federal Specifications Board Specification No. 235a.

II. MATERIAL AND WORKMANSHIP

Syringes shall be made with double-coated rubber sheeting reinforced at seams and edges. The surface shall be smooth and free

from pits and other imperfections. An embossed surface will not be acceptable.

III. GENERAL REQUIREMENTS

No details specified.

IV. DETAIL REQUIREMENTS

1. THICKNESS OF WALL.—The thickness of the cloth inserted wall shall be 0.025 inch with a tolerance of ± 0.005 inch.

2. SUSPENSION TAB.—At the top of the syringe there shall be a suspension tab of rubberized fabric 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 provided.

(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 adapter 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 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 38 per cent by weight of best quality, new wild or plantation rubber.

5. FABRIC.—The sheeting shall be a plain weave, evenly woven, and free from imperfections and makeweight. It shall have a thread count of not less than 68 threads to the inch in warp and 70 in filling, and shall weigh not less than 4.3 ounces per square yard. It shall have a tensile strength of not less than 60 pounds, warp and filling, determined by the strip method.

6. FINISHED SHEETING.—The tensile strength of the coated sheeting shall be not less than 65 pounds, warp and filling. Tests shall be made within 30 days from date of delivery, by the strip method on specimens 2 inches wide.

7. RESISTANCE TO HOT WATER.—A sample after being subjected to the action of boiling water for seven days shall be free from blisters or other defects which might affect its serviceability.

V. SAMPLING

One fountain syringe shall be selected from each 100 delivered for test and analysis. Manufacturers submitting samples of rubber compound coated sheeting, or cloth insertion shall guarantee samples to be of the same material and equivalent cure to that to be supplied in articles to be furnished.

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, and for Textiles in effect on date of issuance of proposal, shall form part of this specification.

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