

RR-H-571

APRIL 4, 1933

FEDERAL STANDARD STOCK CATALOGUE

Section IV

(Part 5)

FEDERAL SPECIFICATION

FOR

HOOKS; CHAIN

This specification was approved for promulgation by the Federal Specifications Board on April 4, 1933, for the use of the departments and independent establishments of the Government in the purchase of this commodity and shall become mandatory for all departments and independent establishments of the Government not later than November 1, 1933. It may be put into effect, however, at any earlier date, after promulgation.

A. APPLICABLE FEDERAL SPECIFICATIONS.

A-1. Federal Specification No. QQ-M-151, Metals, General Specifications for the Inspection of, of the issue in effect on date of invitation for bids, shall form part of this specification.

B. TYPE.

B-1. Chain hooks shall be of but one type.

C. MATERIAL AND WORKMANSHIP, ETC.

C-1. *Material.*—Chain hooks shall be made of open-hearth or electric furnace steel conforming to the requirements of Table I of this specification.

C-2. *Workmanship.*—Chain hooks shall be of good workmanship and free from all defects affecting their appearance or that might affect their serviceability.

D. GENERAL REQUIREMENTS.

D-1. See section E.

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E. DETAIL REQUIREMENTS.

E-1. The steel of which the hooks shall be made shall conform to the following chemical and physical requirements:

TABLE I.—Chemical and physical requirements

Tensile strength per square inch (minimum)	Elongation in 8 inches (minimum)	Phosphorus (maximum)	Sulphur (maximum)	Cold bend
Pounds 60,000	Per cent 25	Per cent {0.05 acid... 0.01 basic..}	Per cent 0.05	180° bent on itself.

E-2. Hooks shall be made in two sizes, namely, 32 inches and 10 inches in length. The diameter shall be $\frac{3}{8}$ inch.

E-3. Hooks shall conform to respective sketches herein.

E-4. Hooks shall not be galvanized.

E-5. After inspection and before shipment the contractor shall coat the hooks by dipping in a bath of bituminous solution.

F. METHODS OF SAMPLING, INSPECTION, AND TESTS.

F-1. *Inspection*.—Chain hooks shall be inspected to determine whether they comply with this specification.

F-2. *Tests*.—From each lot of hooks submitted for inspection, at least two hooks shall be tested to determine compliance with chemical and physical requirements of Table I.

G. PACKAGING, PACKING, AND MARKING.

G-1. *Packing*.—Unless otherwise specified, the subject commodity shall be delivered in standard commercial containers, so constructed as to insure acceptance by common or other carrier, for safe transportation, at the lowest rate, to the point of delivery.

G-2. *Marking*.—Unless otherwise specified, shipping containers shall be marked with the name of the article, the size and the quantity contained therein as defined by the contract or order under which shipment is made, the name of the contractor, and the number of the contract or order.

H. REQUIREMENTS APPLICABLE TO INDIVIDUAL DEPARTMENTS.

H-1. The following departmental specifications, of the issue in effect on date of invitation for bids, shall form a part of this specification:

H-1a. Navy Department: General Specifications for Inspection of Material, together with Appendix II (Metals) (copies of which may be obtained, without cost, upon application to the Bureau of Supplies and Accounts, Navy Department, Washington, D.C.), except that Naval activities should make application to the Commandant, Navy Yard, New York, N. Y.

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I. NOTES.

I-1. This specification governs all United States Government purchases of this commodity, except as covered by paragraph H-1. Users are requested to retain this specification in permanent file until a revision is issued.

I-2. It is believed that this specification adequately describes the characteristics necessary to secure the desired material and that normally no samples will be necessary prior to award to determine compliance with this specification. If, for any particular purpose, samples with bids are necessary, they should be specifically asked for in the invitation for bids, and the particular purpose to be served by the bid sample should be definitely stated, the specification to apply in all other respects.

I-3. An Alphabetical Index of Federal Specifications may be purchased as noted in the paragraph next below, price to be obtained from the Superintendent of Documents.

I-4. Copies of this specification and of F. S. No. QQ-M-151, referred to in paragraph A-1, may be obtained upon application, accompanied by money order, or coupon, or cash, to the Superintendent of Documents, Government Printing Office, Washington, D. C. Price 5 cents. Price of F. S. No. QQ-QM-151, 5 cents.

Notice.—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility or any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

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