

FED. SUPPLY CLASS

5340

1. SCOPE

1. Scope. This specification covers the general requirements for snap hooks. Specific requirements for snap hooks are covered by the applicable part standards (see 6.3).

2. APPLICABLE DOCUMENTS

- 2.1 The following documents, of the issue in effect on date of invitation for bids or requests for proposal, form a part of this specification to the extent specified herein:

SPECIFICATIONS

Federal

QQ-B-613	Brass, Leaded and Nonleaded; Flat Products (Plate, Bar, Sheet and Strip)
QQ-B-750	Bronze, Phosphor; Bar, Plate, Rod, Sheet, Strip, Flat Wire, and Structural and Special Shaped Sections
QQ-C-390	Copper Alloy Castings (including Cast Bar)
QQ-I-666	Iron Castings, Malleable
QQ-S-698	Steel, Sheet and Strip, Low Carbon
QQ-S-777	Steel, Carbon, Strip, Cold Rolled, Untempered Spraying Quality
QQ-W-321	Wire, Copper Alloy
QQ-W-423	Wire, Steel, Corrosion Resisting
QQ-W-461	Wire, Steel, Carbon, (Round, Bar and Coated)
QQ-W-470	Wire, Steel, Carbon, Spring, Music
PPP-B-636	Boxes, Shipping, Fiberboard (Exterior and Interior)
TT-E-529	Enamel, Alkyd, Semi-Gloss, Low Voc Content

Military

MIL-E-480	Enamel, Baking, Phenol or Urea Formaldehyde
MIL-F-495	Finish, Chemical, Black, for Copper Alloys
MIL-DTL-16232	Phosphate Coatings, Heavy, Manganese or Zinc Base (For Ferrous Metals)

STANDARDS

Military

MIL-STD-129	Marking for Shipment and Storage
MIL-STD-147	Palletized and Containerized Unit Loads 40" x 48" Pallet, Skids, Runners or Pallet-Type Base

Copies can be obtained from the Department of Defense Single Stock Point (DODSSP). <http://dodssp.daps.dla.mil>

- 2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

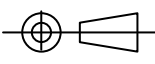
American Society for Quality

ANSI/ASQ Z1.4	Sampling Procedures and Tables for Inspection by Attributes
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Copies can be obtained from the American Society for Quality, 600 North Plankinton Ave., Milwaukee, WI 53203.
www.asq.org

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THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MIL-S-43770, AMENDMENT 3.

THIRD ANGLE PROJECTION		CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NONE		TITLE SNAP HOOKS, GENERAL SPECIFICATION FOR	CLASSIFICATION SPECIFICATION NSM43770

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Documents
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ASTM International

ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials
ASTM B30	Standard Specification for Copper Alloys in Ingot Form
ASTM B36/B36M	Standard Specification for Brass Plate, Sheet, Strip, and Rolled Bar
ASTM B134/B134M	Standard Specification for Brass Wire
ASTM B139/B139M	Standard Specification for Phosphor Bronze Rod, Bar, and Shapes
ASTM B176	Standard Specification for Copper-Alloy Die Castings
ASTM A228/A228M	Standard Specification for Steel Wire, Music Spring Quality
ASTM B271	Standard Specification for Copper-Base Alloy Centrifugal Castings
ASTM A313/A313M	Standard Specification for Stainless Steel Spring Wire
ASTM B505/B505M	Standard Specification for Copper Alloy Continuous Castings
ASTM B584	Standard Specification for Copper Alloy Sand Castings for General Applications
ASTM A684/A684M	Standard Specification for Steel, Strip, High-Carbon, Cold-Rolled
ASTM A853	Standard Specification for Steel Wire, Carbon, for General Use
ASTM B633	Zinc Coating, Electrodeposited, Requirements For
ASTM D1974/D1974M	Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes
ASTM D5118/D5118M	Standard Practice for Fabrication of Fiberboard Shipping Boxes

Copies can be obtained from ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. www.astm.org

Aerospace Industries Association

NASM43770/1	Snap Hooks, Wire Body, Fixed Loop Eye, Flat Spring Closure, With Retainer
NASM43770/2	Snap Hooks, Wire Body, Fixed Loop Eye, Side Retaining Closure
NASM43770/3	Snap Hooks, Cast Body, Fixed Loop Eye with Roller, Flat Spring Closure, Narrow Mouth
NASM43770/4	Snap Hooks, Cast Body, Fixed Loop Eye with Roller, Flat Spring Closure, Wide Mouth
NASM43770/5	Snap Hooks, Cast Body, Fixed Eye, Sliding Bolt Closure
NASM43770/6	Snap Hooks, Cast Body, Swivel Eye, Sliding Bolt Closure
NASM43770/7	Snap Hooks, Cast Body, Loop Eye Swivel
NASM43770/8	Snap Hooks, Cast Body, Round Eye Swivel
NASM43770/9	Snap Hooks, Cast Body, Fixed Loop Eye, Trigger Closure
NASM43770/10	Snap Hooks, Cast Body, Fixed Loop Eye W/O Roller, Flat Spring Closure, Wide Mouth
NASM43770/11	Snap Hooks, Cast Body, Fixed Loop Eye W/O Roller, Flat Spring Closure, Light Duty
NASM43770/12	Snap Hooks, Cast Body, Fixed Round Eye W/O Roller, Flat Spring Closure
NASM43770/13	Snap Hooks, Cast Body, Fixed Loop Eye W/O Roller, Flat Spring Closure, Narrow Mouth
NASM43770/14	Snap Hooks, Cast Body, Open Eye, Sliding Bolt Closure

Copies can be obtained from the Aerospace Industries Association, 1000 Wilson Blvd., Suite 1700, Arlington, VA 22209. www.aia-aerospace.org

SAE International

SAE J423	Methods of Measuring Case Depth
AMS-QQ-P-416	Plating, Cadmium (Electrodeposited)
AMS-QQ-W-428	Wire, Steel, Carbon (High Carbon, Round, For Mechanical Springs, General Purpose)

Copies can be obtained from SAE International, 400 Commonwealth Dr., Warrendale, PA 15096-0001. www.sae.org

Uniform Classification Committee

Uniform Freight Classification

Copies can be obtained from the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, Illinois 60606.

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National Motor Freight Traffic Association, Inc.,
National Motor Freight Classification

Copies can be obtained from the National Motor Freight Traffic Association, Inc., 1001 North Fairfax Street, Suite 600, Alexandria, VA 22314, and www.nmfta.org.

- 3.1 Part standards. The individual item requirements shall be as specified herein and in accordance with the applicable part standards.
- 3.2 Standard product. The snap hooks furnished under this specification shall be the manufacturer's current standard product, except for changes necessary to comply with this specification and the applicable part standard.
- 3.3 Materials
- 3.3.1 Brass sheet and strip. Brass sheet and strip shall conform to alloy No. 268 (UNS C26800), half hard of ~~QQ-B-613~~ ASTM B36/B36M.
- 3.3.2 Phosphor bronze. Phosphor bronze shall conform to ~~Composition A, QQ-B-750~~ UNS C51000, ASTM B139/B139M, spring or extra spring.
- 3.3.3 Copper alloy castings. Copper alloy castings shall conform to alloy No. 854 (UNS C85400), 855 (UNS C85500), 857 (UNS C85700) or 862 (UNS C86200) of ~~QQ-C-390~~ ASTM B176, ASTM B271, ASTM B30, ASTM B505/B505M or ASTM B584 as applicable.
- 3.3.4 Wire, copper alloy. Copper alloy wire shall conform to alloy No. 260 (UNS C26000), half hard or 270 (UNS C27000) spring temper of ~~QQ-W-321~~ ASTM B134/B134M as applicable.
- 3.3.5 Malleable iron castings. Malleable iron castings shall conform to grade I or grade II of QQ-I-666 except that identification marking requirements need not apply.
- 3.3.6 Carbon steel sheet and strip. Carbon steel sheet and strip shall conform to commercial quality cold-rolled sheet or cold-rolled strip temper No. 2 or No. 3 of QQ-S-698.
- 3.3.7 Carbon steel strip, spring quality. Spring quality carbon steel strip shall conform to steel No. 1050-1095 (UNS G10500-G10950), cold-rolled of ~~QQ-S-777~~ ASTM A684/A684M.
- 3.3.8 Wire, CRES. CRES wire shall conform to Ø.0286 inches (22GA), ~~form 1,~~ composition 302 (UNS S30200) of ~~QQ-W-423~~ ASTM A313/A313M.
- 3.3.9 Wire, high carbon for springs. High carbon steel spring wire shall conform to Ø.0258 inch (23GA) type I or II of ~~QQ-W-428~~ AMS-QQ-W-428.
- 3.3.10 Wire, carbon. Carbon steel wire shall conform to steel numbers 1006-1020 (UNS G10060-G10200) semi killed, ~~finish 1,~~ annealed or annealed-in-process of ~~QQ-W-461~~ ASTM A853.
- 3.3.11 Wire, carbon, spring, music. Spring steel wire shall conform to ~~QQ-W-470~~ ASTM A228/A228M.
- 3.3.12 Finish material. Snap hooks shall be finished as specified in 3.3.12.1 thru 3.3.12.5, as applicable.
- 3.3.12.1 Black chemical finish. Black chemical finish shall conform to MIL-F-495 (see 4.2.3.3).
- 3.3.12.2 Zinc coating. Phosphate treated zinc coating shall conform to type IV, SC 3 of ASTM B633.

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