

MIL-S-21433A(SHIPS)

AMENDMENT - 3

7 JUNE 1966

SUPERSEDING

AMENDMENT - 2

5 January 1962

## MILITARY SPECIFICATION

### SOCKETS, TURNBUCKLES, AND TURNBUCKLE ASSEMBLIES --- WIRE ROPE, WEDGE, AND THREADED LOCK SLEEVE

This amendment forms a part of Military Specification MIL-S-21433A (SHIPS), 21 July 1959.

Page 1, paragraph 2.1: Under "FEDERAL" specification, add the following:

- "QQ-B-637 - Brass, Naval: Rod, Wire, Shapes, Forgings, and Flat Products with Finished Edges (Bar, Flat Wire, and Strip).
- "QQ-S-763 - Steel Bars, Shapes, and Forgings, Corrosion-Resisting."

Page 2, paragraph 2.1: Under "MILITARY" specifications, delete reference to "MIL-N-994".

Page 2, paragraph 2.1: Delete the following:

- "NAVY DEPARTMENT  
General Specifications for Inspection of Material."

Page 8, paragraph 3.6.1: Delete "wire rope".

1/CHANGES FROM PREVIOUS ISSUE. - THE EXTENT OF CHANGES (DELETIONS, ADDITIONS, ETC.) PRECLUDE THE ANNOTATION OF THE INDIVIDUAL CHANGES FROM THE PREVIOUS ISSUE OF THIS DOCUMENT.

FSC 5340

MIL-S-21433A(SHIPS)  
AMENDMENT - 3

Page 8, paragraph 3.6.1.1: Delete and substitute:

"3.6.1.1 Component parts of type I, classes A, B, C, D, E, F, G, K and L wire rope sockets; type II, classes A and B turnbuckles; and type III, class A turnbuckle assemblies shall be fabricated without welding, from steel bar stock and forgings. The composition of the material shall be capable of producing a product which, when tested as specified in 4.5.1 or 4.5.2, shall meet the tension test load requirements of tables III, IV and 4.5.2, as applicable. In addition, the material in the steel sockets, turnbuckles and turnbuckle assemblies shall conform to the requirements for high tensile steel, grade HT, as specified in Specification MIL-S-20166 and class 304 of QQ-S-763."

Pages 8 and 9, tables III, and IV, heading, line 2: Change "with wire rope" to "with steel wire rope".

Page 9, paragraph 3.6.1.2: Delete and substitute:

"3.6.1.2 Wedges for steel wire rope shall be manufactured from the same material as the socket assembly."

Page 10, paragraph 3.6.2: Delete "wire rope".

Page 10, paragraph 3.6.2.1: Delete and substitute:

"3.6.2.1 Component parts of type I, class A, wire rope sockets and type I, classes H and J wire rope sockets and type III, class B turnbuckle assemblies shall be manufactured from bronze bar stock and forgings of a composition that will produce a product which, when tested as specified in 4.5.3 and 4.5.4, as applicable, shall meet the tension test load requirements of table V and 4.5.4. The material shall conform to the requirements for bars as specified in Specification QQ-B-637."

Page 10, table V, heading, line 1: Delete "wire rope".

Page 15, paragraphs 3.8.1, 3.8.2 and 3.9.1: Add "The turnbuckle assemblies shall be threaded with National Coarse or Acme threads. National Fine threads shall not be used."

Page 16, paragraph 3.9.2: Add "The turnbuckle assemblies shall be threaded with Acme threads. National Coarse and National Fine threads shall not be used."

MIL-S-21433A (SHIPS)  
AMENDMENT - 3

Page 17, paragraph 4.1: Delete and substitute:

"4.1 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 supplies and services conform to prescribed requirements."

Page 17, paragraphs 4.2 through 4.2.3: Delete in its entirety.

Page 17, paragraph 4.3: Delete "acceptance" and substitute "quality conformance".

Page 17, paragraph 4.3.1, last line: Delete "acceptance".

Page 17, paragraph 4.3.3: In line 2, delete "by the inspector" and in line 3, delete "L-4" and substitute "S-2".

Page 17, paragraphs 4.4, 4.4.1, and 4.4.2: Delete and substitute:

"4.4 Quality conformance inspection.-

"4.4.1 Examination.- Each of the sample sockets, turnbuckles, or turnbuckle assemblies, selected in accordance with 4.3.2, shall be examined to verify compliance with the requirements of this specification not involving tests. Any socket, turnbuckle or turnbuckle assembly in the sample containing one or more defects shall not be offered for delivery. If the number of defective sockets, turnbuckles, or turnbuckle assemblies in any sample exceeds the acceptance number for that sample, this shall be cause for rejection of the lot represented by the sample.

"4.4.2 Quality conformance tests.- Each of the sample sockets, turnbuckles, or turnbuckle assemblies, selected in accordance with 4.3.3, shall be tested in accordance with 4.5 to verify compliance with the requirements of this specification. If any sample socket, turnbuckle, or turnbuckle assembly does not meet the requirements of any of these characteristics, this shall be cause for rejection of the entire lot."

MIL-S-21433A(SHIPS)  
AMENDMENT - 3

Page 19, paragraph 4.5.4: In line 2, add "either corrosion resistant steel" after "made up with" and in last line, delete "(see table V)" and substitute "(see tables IV and V)".

Page 19, table VII: Delete and substitute:

"Table VII - Proof load and ultimate load to straighten for sister hooks of type I, class J wire rope socket and type III, class B turnbuckle assembly.

Material	Wire rope diameter	Proof load	Ultimate load, to straighten (minimum)
	(Inch)	(Pounds)	(Pounds)
Phosphor Bronze wire rope	7/16	3000	5900
	9/16	3000	5900
	5/8	3000	5900
Stainless steel wire rope	7/16	4500	8800
	1/2	4500	8800
	9/16	4500	8800 "

Page 19, paragraphs 4.6 and 4.7: Delete.

Page 21: Delete "Notice" paragraph.

Preparing activity:  
Navy - SH  
(Project 5340-NO92Sh)