



**MATERIAL SPECIFICATION: STAINLESS STEEL HARDWARE**

**1.0 SCOPE:**

This specifies hardware, material and finishing.

**2.0 ORDER OF PRECEDENCE:**

In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

**2.0 MATERIAL:**

Steel, corrosion-resisting, 300 Series in accordance with QQ-S-763 and FED-STD-66 or equal to or interchangeable with 16-18 or 18-8 chromium-nickel alloy.

**2.1 FINISH:**

Plain: Passivation per QQ-P-35 OR AMS-QQ-P-35, Class II.  
Black Oxide: per MIL-DTL-13924D OR MIL-C-13924, Class IV.

**2.2 MAGNETIC PERMEABILITY:**

These screws have a magnetic permeability of 2.0 MAX (Air = 1.0) for a field strength of H=200 oersteds using a magnetic indication per MIL-I-17214.

**2.3 THREADS:**

The threads shall be in accordance with screw-thread standards for Federal Services, Handbook H28.

**2.4 THREAD LENGTH:**

Full form threads shall extend to within 2 threads or less of head bearing surface for lengths thru 2.00 inches. Longer threads shall have minimum full form thread length of 1.50 inches.

**3.0 CERTIFICATIONS / INSPECTION/MINIMUM TEST REQUIREMENTS:**

First Article Inspection: New hardware only.

|                        |              |
|------------------------|--------------|
| Material:              | PER NOTE 2.0 |
| Finish:                | PER NOTE 2.1 |
| Magnetic Permeability: | PER NOTE 2.2 |
| Threads:               | PER NOTE 2.3 |
| Thread Length:         | PER NOTE 2.4 |



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**4.0 PREPARATION FOR DELIVERY:**

Components covered by this specification shall be packaged and marked in accordance with good commercial practice and in a fashion to prevent damage and/or degradation of electrical or mechanical characteristics during transit. Delivery shall be stated on the purchase document.