

FED. SUPPLY CLASS

5315

1. SCOPE

1.1 Scope. This specification covers carbon, alloy and CRES taper pins.

1.2 Classification. Taper pins shall be of the sizes specified on NASM24692.

2. APPLICABLE DOCUMENTS.

2.1 The following documents, of the issue in effect on date of invitations for bid or request for proposal, form a part of this specification to the extent specified herein.

SPECIFICATIONS

Federal

MIL-STD-2073-1

Standard practice for Military Packaging

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 otherwise indicated, the issue in effect on date of invitations for bid or request for proposal shall apply.

American Society for Quality

ANSI/ASQ Z1.4

Sampling Procedures and Tables for Inspection by Attributes

ASME B46.1

Surface Texture

Copies can be obtained from the American Society for Quality, 600 North Plankinton Ave., Milwaukee, WI 53203. www.asq.org

ASTM International

ASTM D 3951

Standard Practice for Commercial Packaging

ASTM E 8/E 8M

Tension Testing of Metallic Materials

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

NASM24692

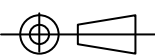
Pin, Tapered, Plain

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

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REVISION

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PROCUREMENT
SPECIFICATION

TITLE

PIN, TAPERED, PLAIN

CLASSIFICATION
SPECIFICATION

NASM16610

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REVISION DATE: FEBRUARY 28, 2013

ISSUE DATE: NOVEMBER 1999

SAE International

AMS2700

Passivation Treatments for Corrosion Resistant Steels

AMS-QQ-P-416

Plating, Cadmium (Electrodeposited)

AMS-C-81562

Coating, Cadmium, Tin-Cadmium, and Zinc (Mechanically Deposited)

AIR4127

Steel: Chemical Composition and Hardenability

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

3. REQUIREMENTS

3.1 Material

3.1.1 Carbon steel. Carbon steel shall be in accordance with the compositions specified in AIR4127 and shall have a minimum ultimate tensile strength of 55 KSI.

3.1.2 Alloy steel. Alloy steel shall be in accordance with the compositions specified in AIR4127 and shall have a minimum ultimate tensile strength of 106 KSI.

3.1.3 CRES. CRES shall be in accordance with the compositions specified in AIR4127 and shall have a minimum ultimate tensile strength of 70 KSI.

3.2 Protective finishes

3.2.1 Cadmium. When specified (see 6.2), carbon and alloy steel pins shall be cadmium plated in accordance with AMS-QQ-P-416, Type II, Class 2 or cadmium coated in accordance with AMS-C-81562, Type II, Class 2. (Cadmium plating in accordance with AMS-QQ-P-416, Type II, Class 3 may be furnished until 25 April 1975.)

3.2.2 Passivation. CRES pins shall be passivated in accordance with AMS2700, Method 1, Class 4.

3.3 Dimensions. Pins shall be in accordance with the dimensions and construction specified on NASM24692.

3.3.1 Concavity and convexity. The total amount of concavity or convexity over the pin length shall not exceed the limits specified below:

<u>Pin length (Inch)</u>	<u>Concavity and Convexity Limits (Inch)</u>
2.000 and under	.001
Over 2.000 thru 4.000	.002
Over 4.000	.004

3.4 Surface roughness. Roughness height values shall be as specified on NASM24692 and shall be in accordance with ASME B46.1.

3.5 Shear strength. Pins shall withstand the shear loads specified on NASM24692 with no evidence of cracking or fracture.

3.6 Bending. Pins shall withstand cold bending thru 180° around a diameter equal to one-half their mean diameter with no evidence of cracking or fracture.

3.7 Workmanship. Pins shall be free from burrs, seams, scratches, nicks and any other defects which may affect their serviceability.

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