

AEROSPACE MATERIAL SPECIFICATION

SAE AMS 7205G

Issued	1952-11
Noncurrent	2003-02
Cancelled	2008-02

Superseding AMS 7205F

Spring Pins, Tubular
Carbon Steel

RATIONALE

AMS 7205G is a cancellation of this document since equivalent requirements are contained in AS7205.

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of February 2008 and has been superseded by AS7205. The requirements of the latest issue of AS7205 shall be fulfilled whenever reference is made to the cancelled AMS 7205. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications indicating that it has been "CANCELLED".

Cancelled specifications are available from SAE.

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1. SCOPE:**1.1 Type:**

This specification covers tubular-shaped pins, fabricated from carbon steel, having a full-length longitudinal slot to permit flexure when inserted into a hole.

1.2 Application:

Primarily to provide a pin with sufficient flexure to remain tight against the surface of a hole into which it has been inserted, after adjusting itself to the hole tolerances.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications (AMS) shall apply. The applicable issue of other documents shall be as specified in AMS 2350.

2.1 SAE Publications:

Available from Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.

2.1.1 Aerospace Material Specifications:

AMS 2350 - Standards and Test Methods

AMS 2370 - Quality Assurance Sampling of Carbon and Low-Alloy Steels, Wrought Products
Except Forgings and Forging Stock

AMS 5120 - Steel Strip, 0.68 - 0.80C (SAE 1074)

AMS 5121 - Steel Strip, 0.90 - 1.04C (SAE 1095)

2.1.2 SAE Standards and Recommended Practices: J496 - Spring Type Straight Pins**2.2 ASTM Publications:**

Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM B117 - Salt Spray (Fog) Testing

ASTM E18 - Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials

2.3 Government Publications:

Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

2.3.1 Military Standards:

MIL-STD-794 - Parts and Equipment, Procedures for Packaging and Packing of

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall be steel strip conforming to AMS 5120 or AMS 5121.

3.2 Condition:

Austempered, zinc phosphate treated, and oiled.

3.3 Properties:

Pins shall conform to the following requirements:

3.3.1 Shear Strength: Shall be as specified in Table I, determined in accordance with SAE J496.

TABLE I

Nominal Pin Diameter	Hole Diameter	Double Shear Strength
Inch	Inch	lb, min
0.062	0.062 - 0.065	425
0.078	0.078 - 0.081	650
0.094	0.094 - 0.097	1,000
0.125	0.109 - 0.112	1,840
0.141	0.125 - 0.129	2,200
0.156	0.156 - 0.160	2,880
0.188	0.187 - 0.192	4,140
0.219	0.219 - 0.224	5,640
0.250	0.250 - 0.256	7,360
0.312	0.312 - 0.318	11,500
0.375	0.437 - 0.445	16,580
0.438	0.437 - 0.445	20,000
0.500	0.500 - 0.510	25,800