AEROSPACE MATERIAL SPECIFICATION

AMS2807™ REV. C

Issued 1991-04
Reaffirmed 2012-08
Revised 2024-05

Superseding AMS2807B

Identification
Carbon and Low-Alloy Steels, Corrosion- and Heat-Resistant Steels and Alloys
Sheet, Strip, Plate, and Aircraft Tubing

RATIONALE

AMS2807C results from a Five-Year Review and update of this specification with the combining of aircraft tubing with hydraulic tubing in 3.1.2 and 3.2.2.

1. SCOPE

This specification covers procedures for identifying carbon and low-alloy steels, corrosion- and heat-resistant steels and alloys, maraging and other highly alloyed steels, and iron alloy sheet, strip, and plate, and aircraft tubing.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AS7766 Terms Used in Aerospace Metals Specifications

2.2 Definitions

Terms used in AMS are defined in AS7766.

"AMS####L" is used herein to mean the applicable material specification number and revision letter, if any.

3. TECHNICAL REQUIREMENTS

3.1 Carbon and Low-Alloy Steels

3.1.1 Sheet, strip, and plate shall be identified in accordance with 3.1.1.1 unless a method in accordance with 3.1.1.2 is acceptable to the purchaser.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
SAE WEB ADDRESS: http://www.sae.org

For more information on this standard, visit
https://www.sae.org/standards/content/AMS2807C/

3.1.1.1 Each sheet, strip, and plate shall be legibly marked on one face, in the respective location indicated below, with AMS####L, lot number (see 3.1.1.3), the manufacturer's identification, and nominal thickness. The characters shall be applied using a suitable marking fluid removable in hot alkaline cleaning solution without rubbing. The markings shall have no deleterious effect on the product or its performance and shall be sufficiently stable to withstand normal handling. The specification number, the manufacturer's identification, and nominal thickness shall be continuously line marked; the lot number shall be included in the line marking or marked at one location on each piece unless exempted by 3.1.1.3.

3.1.1.1.1 Flat strip 6 inches (152 mm) and under in width shall be marked in one or more lengthwise rows of characters recurring at intervals not greater than 3 feet (914 mm).

3.1.1.1.2 Flat sheet, flat strip over 6 inches (152 mm) in width, and plate shall be marked in lengthwise rows of characters recurring at intervals not greater than 3 feet (914 mm), the rows being spaced not more than 6 inches (152 mm) apart and alternately staggered.

3.1.1.1.3 Coiled sheet and strip shall be marked near both the outside and inside ends of the coil; the markings shall be applied as in 3.1.1.1 or shall appear on a durable tag or label attached to the coil and marked with the information of 3.1.1.1. When the product is wound on cores, the tag or label may be attached to the core.

3.1.1.2 Each sheet, strip, and plate shall be marked near one end, coils being marked near the outside end, with AMS####L, lot number (see 3.1.1.3), the manufacturer's identification, and nominal thickness, using any suitable marking fluid. As an alternative method, individual pieces and bundles shall have attached a durable tag marked with the above information or shall be boxed and the box marked with the same information.

3.1.1.3 For carbon steels having less than 0.35% nominal carbon content, the lot number may be omitted.

3.1.2 Aircraft and Hydraulic Tubing

3.1.2.1 Straight tubes 0.029 inch (0.74 mm) and over in wall thickness and 0.250 inch (6.35 mm) and over in OD, minor axis, or least width of flat surface shall be marked in a row of characters recurring at intervals not greater than 3 feet (914 mm) with AMS####L, lot number (see 3.1.2.4), the manufacturer's identification, and wall thickness. The characters shall be applied using a suitable marking fluid removable in hot alkaline cleaning solution without rubbing. The markings shall have no deleterious effect on the tubing or its performance and shall be sufficiently stable to withstand normal handling.

3.1.2.2 Straight tubes under 0.029 inch (0.74 mm) in wall thickness or under 0.250 inch (6.35 mm) in OD, minor axis, or least width of flat surface shall be securely bundled and identified by a durable tag marked with the information of 3.1.2.1 and the nominal OD and attached to each bundle or shall be boxed and the box marked with the same information.

3.1.2.3 Coiled tubing shall be securely bundled and identified by a durable tag marked with the purchase order number, AMS####L, lot number, nominal OD and wall thickness, and the manufacturer's identification and attached to each coil, or shall be boxed and the box marked with the same information.

3.1.2.4 For carbon steels having less than 0.35% nominal carbon content, the lot number may be omitted.

3.2 Corrosion- and Heat-Resistant Steels and Alloys, Maraging and Other Highly Alloyed Steels, and Iron Alloys

3.2.1 Sheet, Strip, and Plate

3.2.1.1 Each sheet, strip, and plate shall be legibly marked on one face, in the respective location indicated below, with AMS####L, lot number, the manufacturer's identification, and nominal thickness. The characters shall be applied using a suitable marking fluid removable in hot alkaline cleaning solution without rubbing. The markings shall have no deleterious effect on the product or its performance and shall be sufficiently stable to withstand normal handling.

3.2.1.1.1 Flat strip 6 inches (152 mm) and under in width shall be marked on one or more lengthwise rows of characters recurring at intervals not greater than 3 feet (914 mm).