

**AEROSPACE
MATERIAL
SPECIFICATION**



AMS-STD-183A

Issued
Cancelled

DEC 1998
JAN 2003

**Continuous Identification Marking of
Iron and Steel Products**

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of January, 2003, and has been superseded by AMS 2806 for bars, wire, mechanical tubing, and extrusions and by AMS 2807 for sheet, strip, plate, and aircraft tubing. The requirements of the latest issue of AMS 2806 or AMS 2807 (whichever is applicable) shall be fulfilled whenever reference is made to the cancelled AMS-STD-183. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications, noting that it has been superseded by AMS 2806 and AMS 2807, as applicable.

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NOTICE

This document has been taken directly from Federal Standard FED-STD-183C, Notice 1 and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace FED-STD-183C, Notice 1. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this technical report.

1. SCOPE:

1.1 Purpose:

This standard establishes uniform physical item identification marking in constantly recurring symbols for selected iron and steel products which are procured and issued for Government agencies. Shipment and inspection acceptance marking are not within the scope of this standard.

- 1.2 The marking requirements of this standard are applicable when included in the item specification or individual contract. Government decision to include the marking requirements of this standard in a Government specification for iron and steel products shall be subject to coordination between the Government and the iron and steel industry.

2. DEFINITIONS AND MARKING TERMS:

2.1 Definitions:

Definitions of commodity forms and shapes shall be those in common use by the iron and steel industry.

2.2 Marking terms:

Marking terms as used in this standard are defined as follows:

- 2.2.1 Producer's name or trademark: The producer's name or registered trademark used shall be that of the producer which performs the final processing or finishing operation prior to marketing the product.

2.2.2 Commercial designation: The commercial designation includes a designator of material and a designator or designators of physical conditions and quality.

- (a) The material designator is that designator selected from those approved by a nationally recognized industrial association, such as the American Iron and Steel Institute, or technical society, if such designation has been assigned. If such designation has not been assigned, proprietary designator may be used. ASTM designations, when specified, include the last two digits of the year of issue of the ASTM specification to which the metal was produced (e.g. A53A-59).
- (b) The physical condition designator is that designator of temper or other physical condition including quality selected from those approved by a nationally recognized industrial association, such as the American Iron and Steel Institute, or technical society. Some of the physical condition designators for the various products are as follows:

Cold rolled	CR
Cold drawn	CD
Hot rolled	HR
Annealed	ANL
Normalized	NORM
Extruded	EXTR
Fine grain	FG
Coarse grain	CG
Spheroidize annealed	SA
Normalized and tempered	NT
Quenched and tempered	QT
Aircraft quality	AQ
Drawing quality	DQ
Elect. resist. weld	ERW
Seamless	S
Arc weld	AW

2.2.3 Specification data: The specification data includes the number and revision letter of the specification to which the metal was produced, and the type, grade, and class of the material, as applicable.

3. MARKING REQUIREMENTS:

3.1 Marking Information:

Physical item identification marking information for iron and steel products shall be in accordance with table I of this standard when such marking is specified in the material specification, contract, or order.

3.1.1 Producer's name or trademark shall always be included.

3.1.2 Commercial designation and specification data for products shall be marked as specified in the material specification, contract, or order.

3.2 Application:

Application of physical marking requirements shall be in accordance with table I of this standard.

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TABLE I. Continuous marking information

Subject to the limitations of column 2, markings showing producer's name or trademark, commercial designation, specification data and heat number¹ shall be printed, stamped, or otherwise legibly marked on the product (see 3.2). Where tags are specified, all required marking shall be shown thereon.

(1) Item	(2) Application
Bars ² (cut lengths only)	All squares, rectangles, hexagons, and octagons 1/2 inch or more in width of flat and all rounds 1/2 inch or more in diameter shall be marked in constantly recurring symbols at intervals not greater than 3 feet throughout length of bar. Secured lifts, bundles, and containers of sizes not required to be marked shall be tagged in two places with the required markings.
Extruded shapes and shaped tubing	All extruded shapes and shaped tubing shall be marked in constantly recurring symbols at intervals not greater than 3 feet throughout length of extrusion or shaped tubing. Secured lifts, bundles, and containers of sizes not required to be marked shall be tagged in two places with the required identification markings.
Plates, sheets, and strips (cut lengths only)	All plates, sheets, and all strips 1 inch or more in width shall be marked in rows of constantly recurring symbols at intervals not greater than 3 feet throughout the length of product. Printing in adjacent rows shall be alternately staggered. Number of rows shall be determined by width of product as follows: a. For corrosion and heat-resistant and alloy steels: 12 inches or less--not less than one row. - Over 12 to 24 inches--not less than 2 rows - Over 24 to 36 inches--not less than 3 rows. - Over 36 to 48 inches--not less than 4 rows. - Over 48 inches--an additional row for every 12 inches. b. For carbon and high strength low alloy steels: 24 inches or less--not less than 1 row. - Over 24 to 48 inches--not less than 2 rows. - Over 48 inches--not less than 3 rows.

¹Heat number is required when consistent with industry practice for product involved. Equivalent numbers, such as slab or lift numbers which are traceable to heat numbers, may be used.

²Billets, forgings, blooms, slabs, and shapes included with bars in certain specifications are to be marked in accordance with the requirements of the material specification and not this standard.