

 AEROSPACE MATERIAL SPECIFICATION	MAM 2300D	
	Issued APR 1984 Noncurrent MAR 2003 Cancelled JUN 2007 Superseded by AMS 2300	
Steel Cleanliness, Premium Aircraft-Quality Magnetic Particle Inspection Procedure Metric (SI) Measurement		

RATIONALE

MAM 2300C has been designated cancelled and superseded because AMS 2300 provides equivalent technical requirements.

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of June, 2007, and has been superseded by AMS 2300. The requirements of the latest issue of AMS 2300 shall be fulfilled whenever reference is made to the cancelled MAM 2300C. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications noting that it is superseded by AMS 2300.

Cancelled specifications are available from SAE.

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AEROSPACE MATERIAL SPECIFICATION



MAM 2300C

Issued APR 1984
Revised MAY 2001
Noncurrent MAR 2003

Superseding MAM 2300B

Steel Cleanliness, Premium Aircraft-Quality Magnetic Particle Inspection Procedure Metric (SI) Measurement

NONCURRENCY NOTICE

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of March, 2003. It is recommended, therefore, that this specification not be specified for new designs.

AMS 2300 covers the same requirements.

"NONCURRENT" refers to those materials which have been widely used and which may be required on some existing designs in the future. The Aerospace Materials Division, however, does not recommend these as standard materials for future use in new designs.

"NONCURRENT" specifications are available from SAE.

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1. SCOPE:

1.1 This specification covers steel cleanliness requirements in metric (SI) units for premium aircraft-quality ferromagnetic steels, other than hardenable, corrosion-resistant steels, by magnetic particle inspection methods.

1.1.1 AMS 2300 is the inch/pound version of this MAM.

1.2 Application:

This procedure has been used typically for the cleanliness evaluation of blooms, billets, tube rounds, stock for forging or flash welded rings, slabs, bars, sheet, plate, tubing, and extrusions used in fabricating highly stressed parts where very strict magnetic particle inspection standards are used in final inspection of such parts, but may be used for qualification of a heat, melt or lot of steel.

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 canceled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM A 604	Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets
ASTM E 10	Brinell Hardness of Metallic Materials
ASTM E 1444	Magnetic Particle Examination

2.2 ANSI Publications:

Available from American National Standards Institute, Inc., 11 West 42nd Street, New York, NY 10036-8002.

ANSI B46.1	Surface Texture
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3. TECHNICAL REQUIREMENTS:

3.1 Melting Practice:

If the material specification does not require a specific method or methods of consumable electrode remelting and the purchaser has not authorized an alternate method, steel supplied to this specification shall be produced using only the vacuum arc consumable electrode process in the remelt cycle, except that steel cast as rectangular ingots for slab and plate may be produced by electroslog remelting.