

AEROSPACE MATERIAL SPECIFICATION

SAE MAM 2221D

Issued	1982-07
Reaffirmed	1999-10
Noncurrent	2003-03
Cancelled	2008-01

Superseded by AMS 2221

Tolerances, Metric Copper and Copper Alloy Bars and Rods

RATIONALE

MAM 2221C has been designated Cancelled and Superseded because equivalent technical requirements are provided in AMS 2221.

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of January, 2008, and has been superseded by AMS 2221. The requirements of the latest issue of AMS 2221 shall be fulfilled whenever reference is made to the cancelled MAM 2221C. 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will remain listed in the Numerical Section of the Index of Aerospace Material Specifications, noting that it has been superseded by AMS 2221.

Cancelled specifications are available from SAE.

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1. SCOPE:

This specification covers established metric manufacturing tolerances applicable to bars and rods of copper and copper alloys ordered to metric dimensions. These tolerances apply to all conditions, unless otherwise noted. The term “exclusive” is used to apply only to the higher figure of a specified range.

- 1.1 If the tolerance is expressed as a percentage of a specified dimension, the tolerance so calculated shall be rounded to the nearest 0.02 mm to obtain the permissible tolerance.
- 1.2 AMS 2221 is the inch/pound version of this MAM.

2. DIAMETER OR THICKNESS:

2.1 Cold Finished:

- 2.1.1 Rods; Rounds, Hexagons, and Octagons: See Table 1.
- 2.1.2 Bars; Squares, and Rectangles: Shall be as follows
 - 2.1.2.1 Copper: See Table 2.
 - 2.1.2.2 Nonrefractory Alloys: See Table 3.
 - 2.1.2.3 Refractory Alloys: See Table 4.

2.2 Extruded Round, Hexagonal, Octagonal, Square, and Rectangular Shapes:

See Table 5.

2.3 Hot Finished Rounds:

See Table 6.

3. WIDTH:

See Rectangles, Not Including Squares: See Table 7.

4. LENGTH:

Shall be as shown in Table 8, 4.1, and 4.2.

- 4.1 Full length pieces specific and stock lengths with or without ends.
- 4.2 No length tolerances are established for extruded and hot rolled bar.