



AEROSPACE MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

485 Lexington Ave., New York, N. Y. 10017

AMS 4764

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Revised

BRAZING ALLOY Copper Base 39Mn - 9.5Ni

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. FORM: Wire, strip, granular, or as ordered.
3. APPLICATION: Primarily for joining corrosion and heat resistant alloys where high strength, good ductility, and only short time oxidation resistance above 1000 F (538 C) are required. Provides a very good color match for corrosion resistant steels.

4. COMPOSITION:

	min	max
Copper	51.0	54.0
Manganese	37.0	41.0
Nickel	8.5	10.5
Other Elements, Total	-	0.5

Note. The following approximate values are listed for reference:

Solidus	1610 F (877 C)
Liquidus	1690 F (921 C)

5. CONDITION: Unless otherwise specified, material shall be furnished in the following condition:
 - 5.1 Wire: Cold drawn, annealed bright.
 - 5.2 Strip: Cold rolled, bright.
 - 5.3 Granular: As fabricated.
6. QUALITY: Material shall be uniform in color, quality, and condition, and free from foreign materials and from imperfections detrimental to its working qualities. Wire and strip shall be clean, sound, and free from slivers, splitting, ragged edges, damaged ends, and other injurious imperfections.
7. SIZES AND TOLERANCES: Unless otherwise specified, material shall be supplied in the following standard sizes and to the tolerances shown:
 - 7.1 Wire:
 - 7.1.1 Nominal Diameter, Inch: 0.031, 0.062, 0.093, and 0.125.
 - 7.1.2 Diameter Tolerances: Shall conform to the latest issue of AMS 2224, Table II, Refractory.
 - 7.2 Strip:
 - 7.2.1 Nominal Thickness, Inch: 0.002, 0.003, 0.004, 0.008.
 - 7.2.2 Thickness Tolerances: Shall conform to the latest issue of AMS 2222, Table II.