



AEROSPACE MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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

AMS 4740

Issued 9-30-66
Revised

COPPER POWDER 99.0 min Cu

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily as filler metal for brazing ferrous and high melting point nonferrous metals.
3. COMPOSITION: Powder shall contain not less than 99.0% copper, silver being counted as copper. Total other metallic elements shall be not greater than 0.30%.
4. CONDITION: As fabricated.
5. QUALITY: Material shall be uniform in color, quality, and condition, and free from foreign materials and from imperfections detrimental to its working qualities.
6. SIZES AND TOLERANCES: Unless otherwise specified, powder shall be supplied in -40, -80, -120, -200, or -325 nominal mesh sizes, as ordered, and particle size distribution shall be as follows:

Nominal Mesh Size	100% Through U. S. Series Sieve Number	99% min Through U. S. Series Sieve Number	10% max Through U. S. Series Sieve Number
-40	30	40	60
-80	60	80	120
-120	80	120	200
-200	140	200	325
-325	270	325	*

*No more than 10% finer than a 10 micron particle size.

7. REPORTS:
 - 7.1 Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a report stating that the product conforms to the requirements specified. This report shall include the purchase order number, material specification number, size, and quantity.
 - 7.2 When assemblies requiring the use of this powder are supplied, the vendor of finished or semi-finished parts shall, unless otherwise specified, furnish with each shipment three copies of a report showing the purchase order number, this specification number, contractor or other direct supplier of powder, part number, and quantity. When powder for making parts is produced or purchased by the parts vendor, that vendor shall inspect each lot of powder to determine conformance to the requirements of this specification, and shall include in the report a statement that the powder conforms, or shall include copies of laboratory reports showing the results of tests to determine conformance.
8. PACKAGING AND MARKING:
 - 8.1 Material shall be packaged in screw-top glass jars or friction-top metal cans to protect it from contamination during shipment and under normal dry storage conditions.