

Data Sheet

50Ni-50Cu (Mac-50Ni/50Cu-WM)

Description

High-purity nickel/copper alloy brazing filler. Nominal composition by weight: **50% Ni** and 50% Cu.

Prime Features:

Versatile non-precious metal brazing alloy, suitable for brazing:

- Under vacuum
- In an inert atmosphere
- In air with flux

Specifications

- Quality Assurance to ISO 9002

Typical Applications:

High-integrity brazed joint duties in:

- Tooling for mining
- Heavy industrial equipment

Supplied As:

- Foil
- Wire
- Powder

Physical Properties

Liquidus Temperature	1315 °C
	1778 °F
Solidus Temperature	1245 °C
	1751 °F

Impurity Limits

ZN	less than 0.001%
CD	less than 0.001%
PB	less than 0.002%
P	less than 0.002%
C	less than 0.01%

All other metallic impurities having a vapor pressure higher than 10⁻⁷mm Hg at 500C are limited to 0.002% each. Impurities having a vapor pressure lower than 10⁻⁷mm Hg at 500C are limited to a total of 0.075%. (This applies to all forms except powder and extrudable paste.)

Please note that all values quoted are based on test pieces and may vary according to component design. These values are not guaranteed in anyway whatsoever and should only be treated as indicative and for guidance only.

Morgan Advanced Materials is a global materials engineering company which designs and manufactures a wide range of high specification products with extraordinary properties, across multiple sectors and geographies.

From an extensive range of advanced materials we produce components, assemblies and systems that deliver significantly enhanced performance for our customers' products and processes. Our engineered solutions are produced to high tolerances and many are designed for use in extreme environments.

We design and manufacture products for demanding applications in a variety of markets using a comprehensive range of advanced ceramic, glass, precious metal, piezoelectric and dielectric materials. We utilise core competences of applications engineering and superior materials technology, together with state of the art fully integrated manufacturing processes to offer precision ceramic components, ceramic-to-metal assemblies and special coatings for use in a variety of applications.