

Data Sheet

Incronibsi™ (Mac-Incronibsi™ 14-WM)

Description

Melt-Spun Foil is produced by a rapid solidification technique. The flexible foils of brittle alloys that are made this way cannot be formed by conventional hot or cold rolling.

High-purity Melt-Spun Foil alloy of nickel, chromium, silicon, boron and iron, for vacuum brazing.

Nominal composition by weight: **73.8% Ni, 14.0% Cr, 4.5% Si, 4.5% Fe, and 3.2% B.**

Prime Features:

- Consistent wetting and melting behaviour
- Structural stability over wide temperature range

Typical Applications:

- Heat exchanger assemblies
- Aero engine compressor vanes, stators and hush kits
- Bonding diamond compounds to tungsten carbide cutting tools

Specifications

- AMS 4776
- AWS BNi-1a
- MBF-10 allied equivalent
- Quality Assurance to ISO 9002

Supplied As:

- Strip foil up to 250mm [10in] wide
- Preforms
- Typical thickness 0.05mm [0.0002in].

Physical Properties

Density	7.44 Mg/m ³
	0.27 lb/in ³
Liquidus Temperature	1094 °C
	2001 °F
Solidus Temperature	960 °C
	1760 °F

Note: 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.