

Technical Data Sheet

MICROFINE COPPER

MICROFINE™
- COPPER -

A fine Copper fibre for brake pad friction materials. MICROFINE COPPER is manufactured using Fibretech's unique Melt Overflow Rapid Solidification (RS) technology and meets 2003 ELV requirements for reductions in Lead, Cadmium, Arsenic and Hexavalent Chromium. MICROFINE COPPER has no traces of deleterious impurities e.g. oil, has consistent chemistry and geometry that can be tailored to meet individual customer requirements. It can be used in combination with other products in the MICROFINE range to form part of the brake compound mixes.

Chemical Composition (maximum unless stated):

Cu	Pb	Cd	Hg	Zn	Others
99.99	0.0001	0.0001	0.0001	0.0001	Cr VI free

- analysis can be adjusted to suit customer requirements

Tensile Strength:	Ambient °C	> 221 MPa
Oil Content:		0%
Hardness:		> 87 HRF
Coefficient of Thermal Expansion:	(0-100 °C)	16.9 x 10 ⁻⁶ /°C
Thermal Conductivity:	(20-100 °C)	1283 W/m ² K
Diameter Distribution:	<125 µm	95%
	125 – 250 µm	5%
	250 – 420 µm	0%
	>420 µm	0%
Average Diameter:		90 µm
Average Fibre Length:		3 mm
Bulk Density:		1.0 – 1.5 g/cc

Grading (and bulk density) can be adjusted to suit individual customer requirements.

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