

Technical Data Sheet

MICROFINE BRONZE

MICROFINE™
- BRONZE -

A fine Bronze fibre for brake pad friction materials. MICROFINE BRONZE 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 BRONZE 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	Sn	Pb	Cd	Hg	Others
80.0-93.0	7.0-20.0	0.0001	0.0001	0.0001	Cr VI free

- analysis can be adjusted to suit customer requirements

Tensile Strength:	Ambient °C	> 290 MPa
Oil Content:		0%
Hardness:		> 105 HB
Coefficient of Thermal Expansion:	(0-100 °C)	18.4 x 10 ⁻⁶ /°C
Thermal Conductivity:	(20-100 °C)	232 W/m ² K
Sieve Analysis (BSS):	850 µm	<3.5%
	425 µm	18-23%
	300 µm	42-47%
	75 µm	25-35%
	Pan	Balance
Average Diameter:		140 µm
Average Fibre Length:		3.5 mm
Bulk Density:		1.5 – 2.0 g/cc

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

FIBRE TECHNOLOGY LIMITED
Brookhill Road Pinxton Nottingham NG16 6NT England

For more information e-mail: info@fibretech.com
Int tel: +44 (1773) 863100 Int fax: +44 (1773) 580287

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