

# Technical Data Sheet

# MICROFINE

# STAINLESS

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A fine Stainless steel fibre for brake pad friction materials. MICROFINE STAINLESS 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 STAINLESS 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 with other products in the MICROFINE range to form part of brake compound mixes.

Chemical Composition (maximum unless stated):

C	Si	Mn	Cr	Pb	Cd	Others
0.30	3.0	2.0	16.0-27.0	0.0001	0.0001	Cr VI Free

- analysis can be adjusted to suit customer requirements

Tensile Strength:	Ambient °C	> 480 MPa
Oil Content:		0%
Hardness:		>175 Hv
Coefficient of Thermal Expansion:	(0-100 °C)	10.4 x 10 <sup>-6</sup> /°C
Thermal Conductivity:	(20-100°C)	26.1 W/m <sup>2</sup> K
Diameter Distribution:	< 75 µm	10%
	75 – 150 µm	85%
	150 – 350 µm	5%
	> 350 µm	0%
Average Diameter:		90 µm
Average Fibre Length:		3 mm
Bulk Density:		1.1 – 1.9 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](mailto:info@fibretech.com)  
Int tel: +44 (1773) 863100 Int fax: +44 (1773) 580287

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