



FIBERCON INTERNATIONAL

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MATERIAL DATA SHEET—446 MELT EXTRACT FIBRES

REVISION DATE: 11/04/07
PRODUCT TYPE: Stainless Steel Fibres
MANUFACTURING PROCESS: Melt-extracted Method
SHAPE: Straight

TYPICAL CHEMISTRY & PHYSICAL PROPERTIES:

(Metallurgy is typical—melt extract is not AISI steel)

% kg	C	Mn	Si	P	S	Cr	Ni	Fe + trace elements
max	0.4	2.0	3.5	0.05	0.05	23—27	-	balance

Melting Range °C: 1430—1510

Critical Oxidation °C

Cyclic: 1177

Continuous: 1093

Specific Gravity g/cm³: 7.87

Tensile strength MPa (min) @ 20 °C: 920

TYPICAL DIMENSIONS:

Length	19mm	25mm	35mm
Typical Equiv. Ø	0.45	0.50	0.63
Typical Aspect Ratio (ℓ/Ø)	43	50	56
Typical Fibre Count/kg	37,000	26,000	12,000

These Fibres are manufactured to the requirements of ASTM A820/A820M-06 Type III which specifies the following dimensional tolerances:

Length and Equivalent diameter +/- 10%

Aspect Ratio +/- 15%

Product Information