



FIBERCON INTERNATIONAL

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MATERIAL DATA SHEET—406 ALFA-1 SLIT-SHEET FIBRES

REVISION DATE: 15/03/07
PRODUCT TYPE: Stainless Steel Fibres
MANUFACTURING PROCESS: Slit-Sheet Method
SHAPE: Straight & Deformed

TYPICAL CHEMISTRY & PHYSICAL PROPERTIES:

(Metallurgy is typical, conforming to AISI standards)

% kg	C	Mn	Si	Ti	Cr	Al	Fe
max	0.025	0.035	0.30	0.40	13	3.0	balance

Melting Range °C: 1455—1515

Critical Oxidation °C

Cyclic: 982—1038

Continuous: 1121—1246

Specific Gravity g/cm³: 7.87

Tensile strength MPa (min) @ 20 °C: 524 (min) @ 20 °C

TYPICAL DIMENSIONS:

Length	13mm	19mm	25mm	35mm
Typical Equiv. Ø	0.5	0.50	0.5	0.84
Typical Aspect Ratio (ℓ/Ø)	24	38	50	42
Typical Fibre Count/kg	48,500	32,000	24,000	6,600

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