



FIBERCON INTERNATIONAL

100 South Third Street

Evans City, PA 16033

Tel: 724-538-5006 or 1-800-521-9908

Fax: 724-538-9118

Email: [info@fiberconfiber.com](mailto:info@fiberconfiber.com)

Website: [www.fiberconfiber.com](http://www.fiberconfiber.com)

### 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/cm<sup>3</sup>: 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