

FibreX SF is a corrosion resistant Stainless Steel fibre that can be used at moderate refractory temperatures and as an alternative to steel fibres in construction where corrosion resistance combined with toughness and strength is needed for long term durability.

Uses include refractory castable and spray lining reinforcement, spray & poured concrete applications (tunnelling, bridge construction, sea defences, road construction, industrial effluent containers).

FibreX SF is based on international standards

**Chemical Composition (maximum unless stated):**

C	Si	Mn	P	S	Cr	Fe
0.40	4.5	2.0	0.050	0.030	14.0	Balance

**Melting Temperature:** 1480-1530°C

**Critical Oxidation Temperature:**

Cyclic Heating: 800 °C

Continuous Service: 780 °C

**Typical Tensile Properties:**

Tensile Strength 570 MPa

Yield Strength 275 MPa

Elongation 20 %

**Modulus of Elasticity (20°C):** 200 GPa

**Coefficient of Thermal Expansion (500°C):** 11.6 @10<sup>-6</sup> /°C

**Thermal Conductivity (500°C):** 28.7 W/m<sup>2</sup>K

**ME Fibre – Typical Dimensions and Aspect Ratios**

Fibre <sup>*1</sup> Length	Typical Equivalent Dia <sup>*2</sup>	Typical Aspect <sup>*3</sup> Ratio	Typical No/kg
12mm	0.34mm	40	151,000
20mm	0.47mm	50	51,000
25mm	0.50mm	50	26,000
25mm	0.60mm	42	18,100
35mm	0.60mm	58	13,000
35mm	0.70mm	50	9,500

<sup>\*3</sup> Aspect ratio is calculated as fibre length ÷ diameter

<sup>\*1</sup> Other fibre lengths can be manufactured on request

<sup>\*2</sup> Other fibre diameters can be manufactured on request

