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Fibrex SFStainless Steel Fibers reinforce monolithic refractories against thermal and mechanical shock by reducing cracking and spalling susceptibility.

The fibers can be used in refractory operating conditions of:

- High thermal cycling, or continuous fiber soaking temperature up to 1830 °F in the refractory
- Moderate mechanical shock
- High temperature oxidation resistance

Chemical Composition (%): maximum unless stated

С	Si	Mn	Р	S	Cr	Ni	Others
0.40	4.5	2.0	0.050	0.030	12.0 -14.0		-

Melting Temperature: 2696 - 2786°F

Critical Oxidation Temperature:

Cyclic Heating: 1500 °F

Continuous Service: 1740 °F

Tensile Strength (typical values):

68°F 83,670 psi 600 °F 39,160 psi

Modulus of Elasticity (68 °F): 29,000 ksi

Coefficient of Thermal Expansion (930 °F): 6.4x10⁻⁶/°F

Thermal Conductivity (930°F): 16.6 BTU/hr/ft/oF

ME Fiber – Typical Dimensions and Aspect Ratios

Fiber Length*1	Typical Equivalent Dia*2	Typical Aspect Ratio ^{★3}	Typical No/lb
0.50 in	0.016 in	31	36,000
0.75 in	0.020 in	38	15,500
1.00 in	0.020 in	50	12,000
1.375 in	0.020 in	69	8,400

^{*1} Other fiber lengths can be manufactured on request

^{*2} Other fiber diameters can be manufactured on request

^{*3} Aspect ratio is calculated as fibre length ÷ diameter