

ME330 Stainless Steel Fibres reinforce monolithic refractories against thermal and mechanical shock by reducing cracking and spalling susceptibility.

The fibres can be used in refractory operating conditions of:

- Moderate thermal cycling, or continuous fibre soaking temperature up to 2200 °F in the refractory
- Extreme mechanical shock
- Extreme temperature corrosive atmospheres

Chemical Composition (%): maximum unless stated

C	Si	Mn	P	S	Cr	Ni	Others
0.50	3.5	2.0	0.050	0.030	17.0-20.0	34.0-37.0	-

Melting Temperature: 2450-2600 °F

Critical Oxidation Temperature:

Cyclic Heating: 1920 °F

Continuous Service: 2200 °F

Tensile Strength (typical values):

68 °F 70,000 psi

1600 °F 4,500 psi

Modulus of Elasticity (1600°F): 28,400 ksi

Coefficient of Thermal Expansion (1600°F): $9.8 \times 10^{-6}/^{\circ}\text{F}$

Thermal Conductivity (1000°F): 16.5 BTU/hr/ft/°F

ME Fibre – Typical Dimensions and Aspect Ratios

Fibre Length ^{*1}	Typical Equivalent Dia ^{*2}	Typical Aspect Ratio ^{*3}	Typical No/lb
0.50 in	0.013 in	40	68,500
0.75 in	0.016 in	50	23,000
1.00 in	0.020 in	50	12,000
1.375 in	0.025 in	58	5,500

*1 Other fibre lengths can be manufactured on request

*2 Other fibre diameters can be manufactured on request

*3 Aspect ratio is calculated as fibre length ÷ diameter



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