Technical Data Sheet

ME 330

ME330 Stainless Steel Fibres increase the resistance of monolithic refractories to 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 1200ºC in refractory**
- **Extreme mechanical shock**
- **Extreme high temperature corrosive atmospheres**

Chemical Composition (maximum unless stated):

C	Si	Mn	P	S	Cr	Ni	others
0.50	3.5	2.0	0.050	0.10	17.0-20.0	34.0-37.0	-

Melting Temperature: 1345-1425°C

Critical Oxidation Temperature:

Cyclic Heating: 1050 °C

Continuous Service: 1165 °C

Tensile Strength (typical values):

20 °C 480 MPa

870 °C 31 MPa

Modulus of Elasticity (24ºC): 196 GPa

Coefficient of Thermal Expansion (870ºC): 17.6 @10^{-6} /ºC

Thermal Conductivity (540ºC): 28.5 W/m^2K

ME Fibre – Typical Dimensions and Aspect Ratios

Fibre *1 Length	Typical Equivalent Dia*2	Typical Aspect *3 Ratio	Typical No/kg
6mm	0.18mm	33	819,000
12mm	0.34mm	35	115,000
20mm	0.47mm	43	36,000
25mm	0.50mm	50	25,500
35mm	0.64mm	56	11,000
50mm	0.83mm	60	4,500

*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

FIBRETECH

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