



Fibrex[®] CDW Data Sheet

CUT-WIRE

FIBREX CD 304 Stainless Steel Fibres are made from Cold-Drawn Wire and can be used to reinforce monolithic refractories used by the petrochemical industry. They help protect against thermal and mechanical shock by reducing cracking and spalling susceptibility. They can be supplied in various lengths and in forms and meet the requirements of AISI 304, ASTM A820 and ASTM A580.

The fibres can be used in refractory operating conditions of:

- Moderate thermal cycling, or
- Continuous fibre soaking temperature up to 950°C in refractory
- Moderate mechanical shock
- High temperature corrosive atmospheres (sulphuration, chlorination etc)

Chemical Composition (maximum unless stated):

C	Si	Mn	P	S	Cr	Ni	Others
0.08	1.0	2.0	0.040	0.030	18.0-20.0	8.0-10.5	0.2

Melting Temperature: 1405-1488°C

Critical Oxidation Temperature

Cyclic Heating: 850 °C

Continuous Service: 950 °C

Mechanical Properties (minimum):

Tensile Strength 520 MPa

Yield Strength 210 MPa

Elongation 35 %

Reduction of Area 50%

Coefficient of Thermal Expansion (870°C): 19.5 x 10⁻⁶ °C

Thermal Conductivity (100°C): 21.5 W/mK

Fibrex CD Fibre – Typical Dimensions and Aspect Ratios

Fibre ^{*1} Length	Typical Equivalent Dia ^{*2}	Typical Aspect ^{*3} Ratio	Typical No/kg
20mm	0.50 mm	40	31,800
25mm	0.50 mm	50	25,600
25mm	0.33 mm	76	58,800
35mm	0.60 mm	58	12,600

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

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

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

HOT C E T E R B I F E

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