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Physical Properties of DS Fibertech Inorganic Vacuum Formed Products

Ceramic Fiber Composition	CF200	CF221	CF220	CF230	CF243	CF250	CF251	CF300
Continuous use limit, °F (°C)	1832 (1000)	1922 (1050)	2200 (1204)	2350 (1288)	2462 (1350)	2642 (1450)	2732 (1500)	2912 (1600)
Melting point, °F (°C)	3200 (1760)	3200 (1760)	3200 (1760)	3200 (1760)	3200 (1760)	3200 (1760)	3200 (1760)	3200 (1760)
Color	White	White	White	White	White	White	White	White
Organic Content	0	0	0	0	0	0	0	0
Nominal density, pcf (kg/m ³)	18 (288)	20 (320)	18 (288)	20 (320)	20 (320)	18 (288)	20 (320)	18 (288)
Modulus of rupture 1" Board 24 hrs isothermal soak, psi (mpa)	75 (0.52)	79 (0.54)	72 (0.50)	70 (0.49)	79 (0.54)	68 (0.47)	72 (0.50)	62 (0.43)
Linear shrinkage percent after 24 hour isothermal soak at limit	<2	<2	<2	<2	<2	<2	<2	<2
Specific heat, BTU/lb°F (J/(g°C))	0.27 (1.13)	0.27 (1.13)	0.27 (1.13)	0.27 (1.13)	0.27 (1.13)	0.27 (1.13)	0.27 (1.13)	0.27 (1.13)
Chemical Analysis (Percent)								
Alumina Ceramic Fiber (AL203)	51.0	51.0	53.9	57.0	61.0	76.0	76.0	80.0
Silica Ceramic Fiber (SI02)	49.0	49.0	46.1	43.0	39.0	24.0	24.0	20.0
Silica Solids (percent by weight)	38.3	35.5	38.3	38.3	35.5	25.2	21.5	19.9
Alumina Solids (percent by weight)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
Thermal Conductivity								
BTU·in/hr·ft °°F (W/m·K)								
At 500 °F (260°C)	0.048 (0.07)	0.053 (0.08)	0.048 (0.07)	0.050 (0.07)	0.054 (0.08)	0.046 (0.07)	0.051 (0.08)	0.042 (0.06)
At 1000 °F (538°C)	0.072 (0.10)	0.080 (0.11)	0.072 (0.10)	0.075 (0.11)	0.081 (0.11)	0.069 (0.09)	0.077 (0.10)	0.064 (0.09)
At 1500 °F (816°C)	1.03 (0.15)	1.14 (0.17)	1.03 (0.15)	1.16 (0.17)	1.16 (0.17)	0.98 (0.14)	1.10 (0.16)	0.92 (0.14)
At 2000 °F (1093°C)	1.52 (0.22)	1.68 (0.24)	1.52 (0.22)	1.71 (0.25)	1.71 (0.25)	1.45 (0.21)	1.62 (0.24)	1.35 (0.20)
At 2552 °F (1400°C)					2.67 (0.38)	2.25 (0.32)	2.54 (0.36)	2.10 (0.30)

The values given herein are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. It is supplied as a technical service and should be used for reference purposes only. Consult your DS Fibertech sales office when specifying your product choice.