Modules and Log Products - RCF fibres - Pyro-Bloc®

	Pyro-Bloc	Pyro-Bloc	Pyro-Bloc
Fiber Grade	**R (Standard)**	**ZR**	**C**
Color	white	white	blue/green
Continuous Use Temperature, °C (°F)	1204 (2200)	1343 (2450)	1371 (2500)
Classification Temperature, °C (°F)	1316 (2400)	1425 (2600)	1425 (2600)
Density, kg/m³ (pcf)	128, 160, 192, 240 (8, 10, 12, 15)	160, 192, 240 (10, 12, 15)	192 (12)
Chemical Analysis, % weight basis after firing			
Alumina, Al_2O_3	47	37.5	43
Silica, SiO_2	53	47	54
Zirconia, ZrO_2	-	15.5	-
Chromium oxide, Cr_2O_3	-	-	3
Other	trace	trace	trace
Thermal Conductivity, W/m•K (BTU•in/hr•ft²), per ASTM C201			
Density, kg/m³ (pcf)	160 (10)	192 (12)	192 (12)
200°C (392°F)	0.06 (0.39)	0.06 (0.44)	-
260°C (500°F)	0.07 (0.47)	0.07 (0.50)	-
400°C (752°F)	0.10 (0.69)	0.10 (0.67)	-
538°C (1000°F)	0.14 (1.00)	0.13 (0.90)	-
600°C (1112°F)	0.17 (1.16)	0.15 (1.01)	-
800°C (1472°F)	0.26 (1.82)	0.21 (1.45)	-
816°C (1500°F)	0.27 (1.88)	0.21 (1.49)	-
1000°C (1832°F)	0.38 (2.65)	0.29 (1.99)	-
1093°C (2000°F)	0.45 (3.10)	0.33 (2.28)	-

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	Pyro-Bloc HS	Thermo-Bloc™	
Manufacturing location	NA	EU/AS	
Color	white/pale green	white	
Continuous Use Temperature, °C (°F)	1093 (2000)	-	
Classification Temperature, °C (°F)	1200 (2200)	1260 (2300)	
Density, kg/m³ (pcf)	unfired - 481 (30) fired - 368 (23)	160, 192 (10, 12)	
Specific heat, J/kg•°C (BTU/lb•°F), measured @ 1000°C (1832°F)	-	1.13 (0.27)	
Thermal Conductivity, W/m•K (BTU•in/hr•ft²), per ASTM C201			
Density, kg/m³ (pcf)	481 (30)	160 (10)	192 (12)
260°C (500°F)	0.08 (0.53)	-	-
400°C (752°F)	-	0.11 (0.76)	0.1 (0.69)
538°C (1000°F)	0.16 (1.13)	-	-
600°C (1112°F)	-	0.18 (1.25)	0.16 (1.13)
800°C (1472°F)	-	0.25 (1.73)	0.23 (1.59)
816°C (1500°F)	0.28 (1.97)	-	-
1000°C (1832°F)	-	0.34 (2.36)	0.31 (2.15)
1093°C (2000°F)	0.42 (2.95)	-	-

Safety Data Sheet (SDS): are available for all products.
Datasheets, in other languages, can also be found by visiting our website **www.morganthermalceramics.com**

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