

Rigid Insulation

Base Material: Pitched Short Fiber	Unit	1800-17	1800-25
Bulk Density	g/cm ³	0.18~0.22	0.2~0.27
Carbon Content	Wt %	>99	>99
Ash	ppm	<500	<500
Compression Properties (5% deformation intensity)	Surface Direction Thickness Direction	MPa 0.22	1.61 0.46
Bending Properties (maximum intensity)	Surface Direction Thickness Direction	MPa 1.5	1.97 2.00
Resistivity	Ω-m	3.8 x 10 ⁻³	3.8 x 10 ⁻³
Average Thermal Conductivity in N ₂	W/m/K	0.29	0.34
Coefficient of thermal expansion 0 – 1000 C 1000-2000 C	X 10 ⁻⁶ /K	2.5 3.0	2.5 3.0

Results for Various surface treatment

Surface Treatment	Features and Functions			
	1	2	3	4
No Surface Treatment	-	-	-	-
Special Graphite Coat DAG137	○	-	○	-
Thermal Expansion Graphite Sheet	◎	○	○	-
Encapsulation	○	○	○	○