

CFC AND GRAPHITE FOR HIGH TEMPERATURE APPLICATION MATERIAL CHARACTERISTICS

Material	Apparent density (g/cm ³)	Porosity [%]	Flexural strength [N/mm ²]	Electrical resistivity [mm ² Ω/m]	Thermal conductivity [W/mK]	Thermal conductivity [W/mK] ⊥	Coefficient of thermal expansion [10 ⁻⁶ /K]	Coefficient of thermal expansion [10 ⁻⁶ /K] ⊥
CF226	1.50	8	120	25	40	5	0.8 (25-670°C) α 25-1000°C	7.3 (25-670°C) α 25-1000°C
CF226/2	1.40	20	100	28	20	2	1.1 (25-1000°C)	
CF222	1.55	8	200	22	40	10	0.8	7.0
CF212	1.55	8						
					isotropic		isotropic	
FU8957	1.75	16	55	14	90		4.6 (20 – 200°C)	
FU4510	1.75	15	21 15 ⊥	7 12 ⊥	180	140	2.4 (20–1000°C)	3.4 (20-1000°C)
FU4501	1.78	13	37	12	90		5.0 (20–1000°C)	
FU2592	1.74	20	25 17 ⊥	7 10 ⊥	170	120	2.8 (20– 1000°C)	3.8 (20-1000°C)
FE219	1.75	14	35	16	75		4.0	
FE379	1.82	9	40	18	75		4.7	