

CeraMaterials™

Graphite & Ceramic Insulation, CFC, Moly & Alumina

Graphite & Carbon Felt Insulation

Carbon Felt



Property	Measured Value
Bulk density (g/cm ³)	0.15 PAN (.12 Rayon)
Carbon content (%)	≥97
Thermal conductivity (W/m-K)	0.22 PAN (0.21 Rayon)
Specific resistance (ohm.cm)	0.18 - 0.22
Tensile Strength (Mpa)	0.18 - 0.30
Ash content (%)	≤1.0
Processing temperature (°C)	1200
Environment To use (°C)	2400 in neutral atmosphere, 3000 in vacuum
Width	Max 1200 mm (48 in) (Custom sizes available)
Thickness	¼ to 2 inches thick (Stock ¼ in & ½ in thick only)
Price (volume discounts available)	USD \$30/lb. PAN & \$44/lb Rayon

Property	Measured Value
Bulk density (g/cm ³)	0.12 PAN (0.085 Rayon)
Carbon content (%)	≥99
Thermal conductivity (W/m-K)	0.35 (0.29 Rayon)
Specific resistance (Ohm.cm)	0.14 - 0.18
Tensile Strength (Mpa)	0.1-0.25
Ash content (%)	≤0.5
Processing temperature (°C)	2000
Environment To use (°C)	2400 in neutral atmosphere, 3000 in vacuum
Wide	Max 1200 mm (48 in) (Custom sizes available)
Thickness	¼ to 2 inches thick (Stock ¼ in & ½ in thick only)
Price (volume discounts available)	USD \$50/lb. PAN & \$70/lb. Rayon

Graphite Felt



Furnace Power-Loss versus Felt Thickness

Thermal Conductivity of Felt (W/m-K) (run in Vacuum)

