

# Graphite & Carbon Felt Insulation

## Carbon Felt



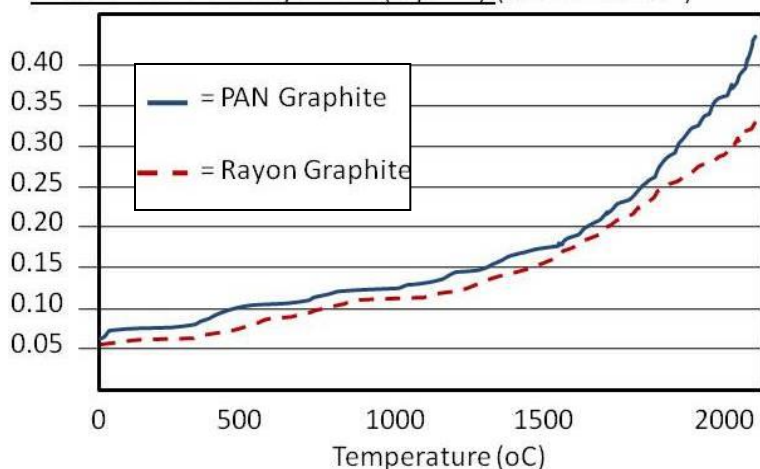
Property	Measured Value
Bulk density (g/cm <sup>3</sup> )	0.15 PAN (.12 Rayon)
Carbon content (%)	≥97
Thermal conductivity (W/m-K)	0.22 PAN (0.21 Rayon)
Specific resistance (ohm.cm)	0.18 - 0.22
Tensile Strength (Mpa)	0.18 - 0.30
Ash content (%)	≤1.0
Processing temperature (°C)	1200
Environment To use (°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)	<b>USD \$30 / lb. PAN &amp; \$44 / lb Rayon</b>

Property	Measured Value
Bulk density (g/cm <sup>3</sup> )	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)	<b>USD \$50 / lb. PAN &amp; \$70 / lb. Rayon</b>

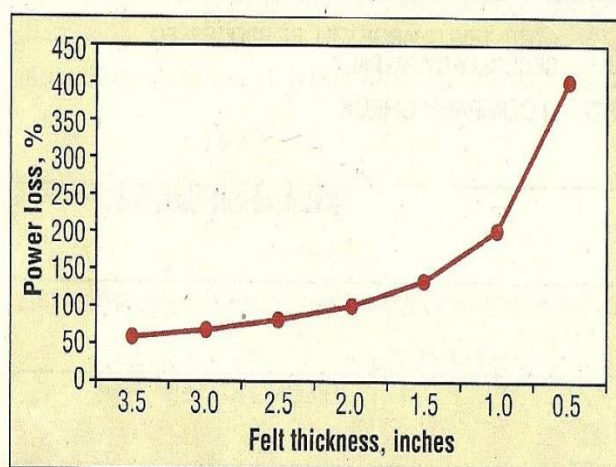
## Graphite Felt



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



Furnace Power-Loss versus Felt Thickness



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