



## BEIJING CFCCARBON CO., LTD

### Rigid graphite felt /board

#### 1. Overview

Graphite board/ rigid composite felt is a carbon matrix composite material reinforced by carbon fiber and its fabric. It has the advantages of low density, high strength, high specific modulus, high thermal conductivity, low expansion coefficient, good friction performance, good thermal shock resistance and high dimensional stability.

#### 2. Product properties /data sheet comparison and prices:

Types	Laminated /Sandwich		short fiber /integral	
Grade name	PRF-3	RRF-3	RRF-3W	RRF-3WP
Material type	PAN, long fiber; short,laminated	Rayon, long fiber, laminated.	Rayon, short fiber, molded, integral	purified RRF-3W
Standard size /mm	1800-1500-(20-200)		1600-1260-460	
Carbon content	≥99.9%	≥99.9%	≥99.92%	≥99.99%
Ash content	500PPM	500PPM	≤800PPM	≤20PPM
Bulk density /g/cm3	0.20~0.30	0.18~0.22	0.17±0.01	
Thermal conductivity (25°C)	<0.20W/m.K	<0.10W/m.K	<0.10W/m.K	
Thermal conductivity (1000°C)	<0.70W/m.K	<0.50W/m.K	<0.30W/m.K	
Compressive strength /Mpa	1.2	0.9	0.7	
Bending strength /Mpa	1.5	1.1	0.9	
Processing temperature	2000 °C	2000 °C	2100 °C	
Application temperature (Vacuum/inert gases)	1200~2500 °C	1600~2500 °C	1600~3000 °C	
Application temperature (Oxygen)	≤400 °C	≤450 °C	≤400 °C	
Price \$/kgs EXW basis.	37.5	57	95	128
Density for w.t calculation	0.25g/cm3	0.20g/cm3	0.18g/cm3	
Additional Process	with foil and or CFC, or coating, purification (≤20PPM)	with foil and or CFC, or coating, purification (≤20PPM)	with coating	

#### 3. Product application

It is mainly used in single crystal furnace, polycrystalline furnace, semiconductor industry, and can also be used in powder metallurgy industrial furnace, vacuum sintering furnace, etc.

#### 4. Product Specifications

Customized services can be provided, product specifications, thickness, raw materials and surface coatings can be customized.

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