

GFT Graphite Felt

Flexible, conformable and ideal for any high-temperature application

GRAFSHIELD™ graphite felt is a fibrous insulation material that provides ultra-low thermal conductivity with good oxidation resistance and dimensional stability. It is flexible, conformable and easily cut to shape, making it ideal for any high-temperature application. Also, our offerings include a high-purity grade for the most sensitive environments.



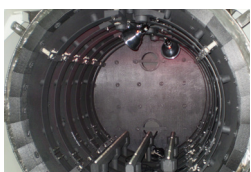
Features

- Consistent dimensions and thermal properties roll-to-roll
- Lightweight
- Low dusting
- Conformable
- Low thermal conductivity
- Can be cut with a knife for easy installation or repair
- Thermally stable

Benefits

- Easy handling
- Easy to maintain a clean environment
- Can be used in any configuration
- Low cost of ownership
- Low energy use
- Stable in working conditions at 3000°C*

Applications



Vacuum Furnaces



Directional Solidification System (DSS) Furnaces



Czochralski (CZ) Pullers



Carbon Fiber and DPF Furnaces

Image courtesy of Harper International

Typical Properties* and Grade Comparison

Characteristic	Unit	GFT-1400	GFT-2200	GFT-2500
Density	g/cm ³	0.1	0.070	0.094
Linear Shrinkage	%	Negligible	Negligible	Negligible
Water Absorption	wt %	Negligible	Negligible	Negligible
Minimum Carbon Assay	%	99	99.8	99.9
Ash Content	ppm	700	1500	700
Specific Heat	J/g/ °C	0.72	0.72	0.72
Specific Heat (1400°C)	J/g/ °C	1.7	1.7	1.7
Emissivity	-	0.99	0.99	0.99
Thermal Conductivity (1400°C)	W/mK	0.26	0.44	0.44
Service Temperature	°C	1400	2200	2500

* Will vary based on operating conditions

** Properties listed are typical and cannot be used as accept/reject specifications

*** Custom sizes available

Global Technical Support

Our global team of Applications Engineers is knowledgeable about graphite and applications spanning multiple industries. These include metallurgical casting, electronics, chemical, nuclear, defense/aerospace, solar, LED, semiconductor, and other high temperature processes.

Regardless of your product design phase (concept, prototyping, or mass production), we offer technical answers to some of your most challenging problems with a fast response time.



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Redefining limits

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