

GRAFTech
International

GRAFSTAR™

Innovation in Graphite Technology

High strength. Low thermal expansion. Superior conductivity.



GrafTech's GRAFSTAR™ advanced graphite is the ideal choice for applications across multiple industries. A pioneer in the carbon and graphite industry, GrafTech conducts ongoing testing, grade formulation, machining and purification to develop products that meet custom requirements.

Low Thermal Expansion

Matching the coefficient of thermal expansion between materials is important for many applications. Graphite has an extremely low coefficient of thermal expansion. It can be tailored to the application by carefully selecting the formulation.



High Strength

Unlike most materials, the mechanical strength of graphite increases with temperature. Graphite is twice as strong at 2500°C as it is at room temperature.

Superior Conductivity

Graphite has a thermal conductivity of above 100 W/mK, very similar to many metals. Carbon material does not have the highly ordered crystalline structure of graphite and has a very low thermal conductivity.



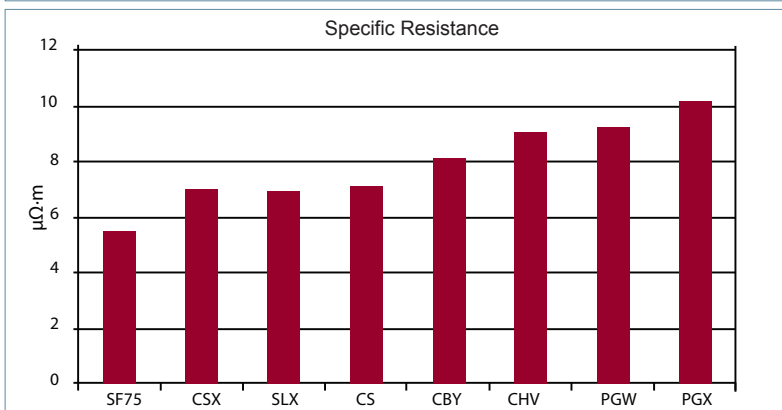
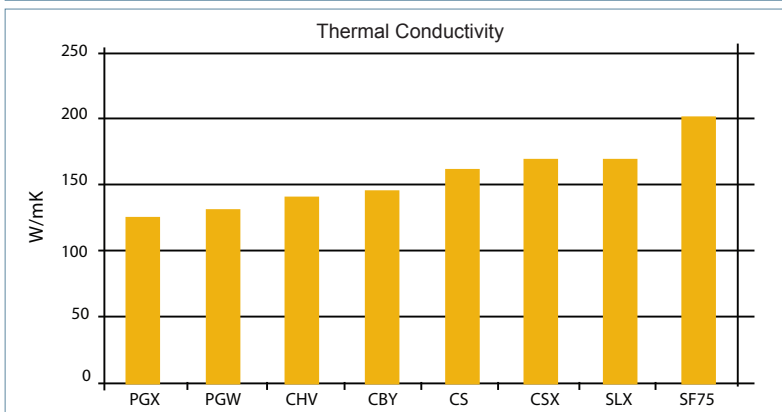
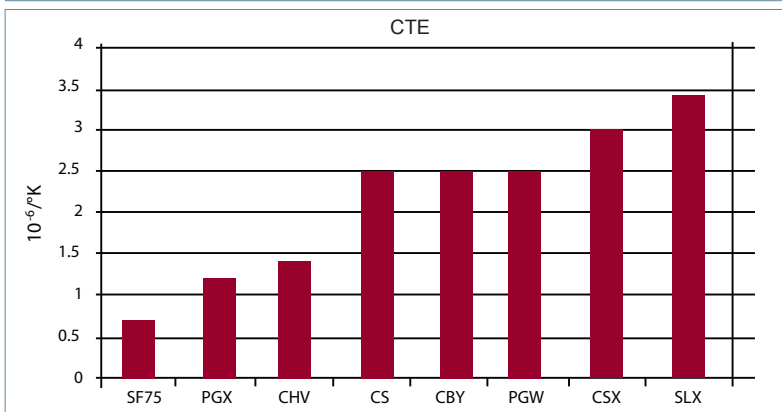
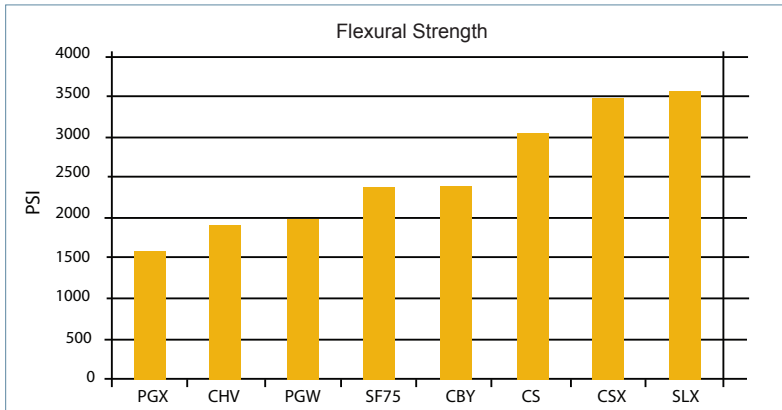
We Have the Graphite Solution for Your Application

Graphite's Unique Properties

- Non-reactive with most chemicals
- Stable to > 3000 °C
- High resistance to thermal shock
- Strength increases with temperature
- Machinable to close tolerances
- High thermal conductivity
- Excellent electrical conductor

Unique Machining Capabilities

GrafTech sets the industry standard in graphite, machining diameters up to 73" and larger jointed diameters upon request. Also, GrafTech provides the expertise and solutions to keep you ahead of the competition - recommending design changes to reduce machining costs and handling any CAD/Cam system in use, eliminating barriers in language and measurement systems.

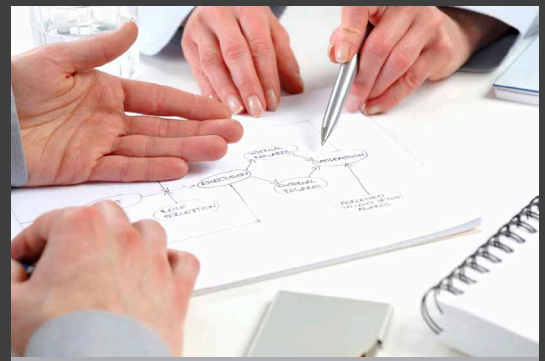


GRAFSTAR™ Advanced Graphite Materials

Grade	CBY™	CST™	CSX™	SLX™	SF75™	CHV™	PGW™	PGX™
Round (Inches)								
3-7 x 72	X	X	X					
8-24 x 72	X	X	X					
20-28 x 72				X				
28-30 x 72	X	X	X					
36-73 x 72			X					X
36-55 x 42								X
44 x 23							X	
44 x 32							X	
50 x 23							X	
52 x 23							X	
Rectangles (Inches)								
15 x 30 x 72	X	X	X					
17 x 17 x 72	X	X	X					
17 x 17 x 88	X	X	X					
19 x 19 x 72	X	X	X					
23 x 23 x 72	X	X	X		X			
24 x 24 x 118						X		
22 x 48 x 118						X		

Our global team of Applications Engineers are 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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