

GRAFTech International

AMW™ Heatshield

GrafTech International is a global leader in graphite and carbon products. We enable customer leadership better and faster than our competition, through the creation, innovation and manufacture of carbon and graphite material science based solutions.

AMW™ Heatshield

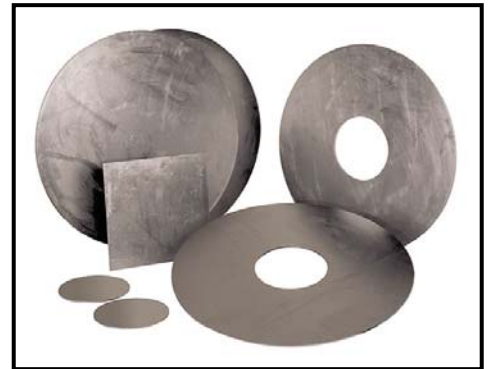
AMW™ heatshield is a high temperature laminated heat shield and insulator. GRAFOIL® flexible graphite and low thermal conductivity carbonaceous inter-layers are used to form a laminated structure that gives the AMW™ heatshield its strength and stiffness. The low z-direction thermal conductivity of the structure ensures good insulation value. In addition, the GRAFOIL® flexible graphite facing ensures that the AMW heatshield has excellent radiant heat properties.

In the x-y direction, the AMW™ heatshield makes use of the GRAFOIL® flexible graphite sheet's extremely high thermal conductivity to rapidly dissipate heat, reducing hot and cold spots and improving temperature uniformity throughout the hot zone.

The AMW heatshield's strength also provides superior resistance to impact and mechanical damage in high traffic applications.

Typical Applications

- Vacuum furnace insulation
- Inert gas furnace insulation
- Inert gas atmosphere process equipment insulation



Sizes

Thickness	Standard Cut Sizes			Metric
0.25"	24 x 48"	24 x 52"	40 x 60"	6 x 1000 x 1500 mm
0.375			38 x 38"	

Custom sizes and shapes are available on request

Typical Properties (Room Temperature)*

	<u>ENGLISH</u>	<u>WG</u>	<u>AG</u>	<u>SI</u>	<u>WG</u>	<u>AG</u>
Service Temperature	°F	5400		°C	3000	
Flexural Strength	psi	750		MPa	5.2	
Thermal Conductivity 25 °C	BTU-ft/hr ft ² °F	140	1.7	W/mK	240	3
Thickness variation	%	± 10		%	± 10	
Sealability (ASTM F-37)	MI/hr	0.5		MI/hr	0.5	
CTE (RT to 2000 °C, x-y)	10 ⁻⁶ in/in/°F	15		10 ⁻⁶ m/m/K	27	

* Please contact GrafTech for high temperature and additional properties

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