

Flex-Shield

A flexible radiant heat shield produced by bonding graphite foil to a single woven layer of carbon/carbon composite. It provides a protective barrier between fragile insulation materials and the furnace hot zone.

Standard Sheet Sizes:	
48 X 96"	
48 X 120"	

Grades	Thickness	Min Bending Radius
CFS-100-6	0.026"	4"
CFS-100-12	0.040"	12"



USES: Flex-Shield is recommended as a protective heat shield on the hot-face of high temperature insulation packages. It can be installed directly over carbon/graphite felt or conventional rigid board insulation. Flex-Shield is optimized to be extremely durable and yet pliable enough for bending.

MATERIAL ATTRIBUTES:

- **Insulation Protection:** Prevents heat pack erosion from high velocity gas flows and protects the insulation package from damage due to dropped parts. The use of Flex-Shield cost effectively extends the lifetime of conventional insulation heat packs, which are susceptible to erosion.
- **Machinability:** Flex-Shield can be easily cut using a utility knife and straight edge. More complex shapes can be formed with a punch press.
- **Easy Installation:** Flex-Shield covers the face of the insulation package by conforming to the walls of both round and square hot zones. It can be attached directly to rigid board insulation with drywall-type graphite screws or held in place utilizing threaded studs attached to the hot zone cage or plenum.
- **Increased Efficiency:** Reduces convective and radiant heat transfer.