Blankets

product overview

Introduction to our Products

Thermal Ceramics is a single-source provider of insulation and refractory technology: fiber, insulating and dense firebricks, monolithics and specialized insulation. Each product line has a number of well-known global brands.

Fiber: in blanket, module, paper, vacuum forming, mastic and textile forms for a variety of manufacturing applications. Brands include Superwool®, Kaowool®, Cera®, Pyro-Bloc®, FireMaster®.

Insulating and Dense Firebrick: in straight or slab form, in standard or custom-designed shapes. Brands include K®, JM™, TC®, TJM™ and SR™-90.

Monolithics: include insulating, general purpose and special duty dense castables. Brands include Tri-Mor®, Kaolite®, Firelite®, Kaocrete®, Firecrete®.

Specialized Insulation: microporous, fired dense refractories, including BTU-BLOCK™, Min-K®, Cerox® and Valcor®.

Blanket Offering

Thermal Ceramics blankets are available in a wide range of chemistries, densities and thicknesses. Blankets are air laid into a continuous mat and mechanically needled for added strength and surface integrity. Common characteristics are:

- **low thermal conductivity**
- **excellent thermal shock resistance**
- **low heat storage capacity**
- **inorganic - smoke free**

Superwool® Blankets

Superwool Plus

- Temperature use limit of 2190°F (1200°C)
- Exceptional thermal insulating performance
- Binder and lubricant free

Superwool 607 HT

- Temperature use limit of 2372°F (1300°C)
- Highly effective for both high-temperature insulating applications and direct molten metal contact
- Low biopersistance
- Immune to thermal shock

RCF Blankets

Kaowool® Blanket

- Original kaolin grade blanket
- Maximum temperature rating of 2300°F (1260°C)

Kaowool RT Blanket

- Maximum temperature rating of 2300°F (1260°C)
- Produced from a high-purity synthetic blend

Cerablanket®

- Maximum temperature rating of 2400°F (1316°C)
- Produced from a high-purity blend of alumina-silica
- Recommended for reducing atmospheres or where low percentage of iron oxide and titania are required

Cerachem® Blanket

- Maximum temperature rating of 2600°F (1427°C)
- Produced from a high purity synthetic blend of alumina-silica-zirconia
- Resists excessive shrinkage at elevated temperatures

Cerachrome® Blanket

- Maximum temperature rating of 2600°F (1427°C)
- Produced from a synthetic blend of alumina-silica-chromia
- Well-suited for hot face lining applications

Maftec® Blanket

- Maximum temperature rating of 2900°F (1593°C)
- Produced from mullite fiber
- Offers exceptional high-temperature resistance

Saffil® Blanket

- Maximum temperature rating of 2912°F (1600°C)
- Produced from high purity poly-crystalline alumina fiber
- Lowest possible shot content

Blankets

Typical Applications

Non-Industrial Applications

Appliance - Cooking Equipment
- Oven wrap and door panels
- Hoods and gasketing

Appliance - Heaters
- Electric storage
- Water
- Boilers (commerical and domestic)

Appliance - Hearth
- Fireplaces
- Chimneys and flues
- Stoves

Transportation
- Aerospace
- Automotive

Fire Protection
- Marine offshore and vessels
- Industrial cable trays
- Fire doors

Industrial Applications

Power Generation
- HRSG stacks, silencers and ductwork
- Water tube boiler walls

Alternative Energy
- Fuel cell enclosures and processors
- Microturbines
- Solar panels and internals

Ferrous and Non-Ferrous Metals
- Furnace linings, walls, ceilings, floors
- Back-up insulation

Hydrocarbon Processing/Petrochem
- Fired heaters
- Reformers

Thermal Ceramics
Insulating Our World

tell me more
www.thermalceramics.com

BEWARE OF IMITATIONS
Look for the Logo

P245/07.09