

## 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 (commercial and domestic)

#### Appliance - Hearth

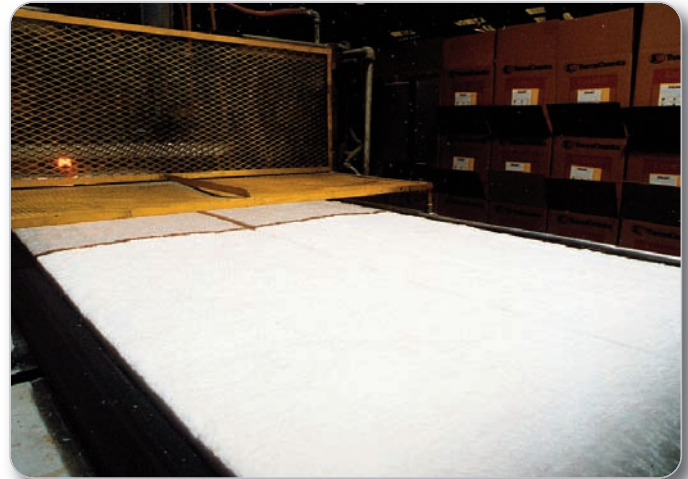
- Fireplaces
- Chimneys and flues
- Stoves

#### 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](http://www.thermalceramics.com)



**BEWARE OF IMITATIONS**  
Look for the Logo 