

3000°F CERAMIC BLANKET

Super Efficient Thermal Insulation

Rescor Ceramic Fiber Blanket Insulation is a strong, lightweight, flexible blanket made from Asbestos-Free extra long, ceramic fibers, which are cross-linked to produce excellent handling strength.

Easily withstands continuous use up to 3000°F.

Provides outstanding thermal insulation, low heat storage, high resiliency, high mechanical and thermal shock resistance and sound absorption.

Resistant to oxidizing and reducing atmospheres, molten non-ferrous metals, steam, most chemicals and solvents.

(Not recommended for use with HF, H₃PO₄ and NaOH)

APPLICATIONS

High temperature insulation, furnace linings, mufflers, gas turbines, fans, ovens, chemical reactors, expansion joint packing, high temperature filters, fire protection, sound absorption, stress relieving insulation, non-contaminating brazing and sintering separators.

Use Rescor™ 370 for all general purpose needs to 2300°F.

Use Rescor™ 370H for applications to 2500°F.

Use Rescor™ 3370UHT for applications to 3000°F.

Use Rescor™ 370FT (Aluminum foil backed blanket) for additional insulation and handling strength. Ideal for use as a reflective barrier.



Cutting 370 Insulation for a 2000°F Nuclear Instrument

Physical Properties

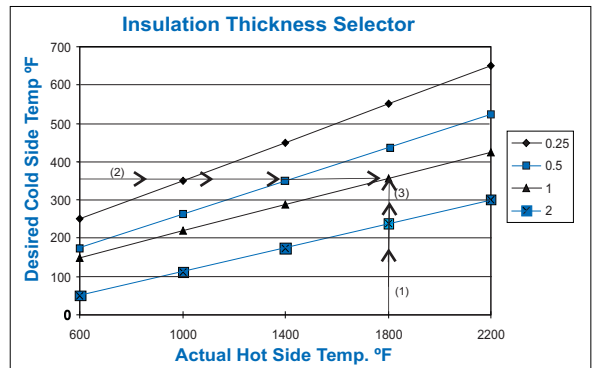
Melting Point (°F)	3200
Service Temp (°F)	2300 -3000
Mixed Density (lb./ft ³)	6-12
Dielectric Constant (@ 10 ⁸ cps)	1.61
Dielectric Strength (volts/mil.)	100
Loss Factor	0.017
Specific Heat (BTU / # °F)	0.25
Thermal Conductivity (BTU-in. / Hr. Ft ² °F)	
500°F	0.38
1000°F	0.60
1500°F	0.90
2000°F	1.33

To Find your Insulation Requirements:

- 1) Draw a vertical line from the hot side temperature.
- 2) Draw a horizontal line from the desired cold side temperature.
- 3) The required insulation thickness is shown at the intersection of the two lines.

Example:

For a furnace with an 1800°F working temp. and a desired outside furnace temp. of 350°F, 1" of insulation would be required.



Cat. No.	Temp.	Thickness	Size/Roll
370-1.....	2300°F.....	1/8".....	24" x 25'
370-2.....	2300°F.....	1/4".....	24" x 25'
370-3.....	2300°F.....	1/2".....	24" x 12'
370-4.....	2300°F.....	1/2".....	24" x 25'
370-5.....	2300°F.....	1".....	24" x 12'
370H-6.....	2500°F.....	1/2".....	24" x 12'
3370UHT-1.....	3000°F.....	1 1/2".....	24" x 24"
375FT-1.....	(Al. Foil Backed)	1/2".....	24" x 12'
370-1EHS.....	2300°F.....	1/8".....	24" x 25'

Special Sizes, Custom Fabricated Parts and Quantity Prices Available on Request
See pages 50, 51 for Ceramic Adhesives and Hardeners

370R CERAMIC BLANKET

REACH COMPLIANT

Highly Efficient, Thermal Insulation

- *Thermally Stable to 2730°F*
- *Flexible and Resilient*
- *Excellent Non Wetting Characteristics*



Introducing REACH compliant, high temperature, ceramic blankets, the ideal replacement for non compliant, RCF blankets.

Now Available, Cotronics' 370R, ceramic blankets are made from alkaline earth silicate wool, highly efficient and ideal for use in applications that must comply with strict safety requirements and regulations.

Useable to 2370°F. They are highly efficient, thermally stable, flexible and resilient.

They have low heat storage and extremely low shrinkage.

Cotronics' REACH compliant, ceramic blankets also offer excellent resistance to chemicals and splashes of molten metal, oil and water.

(Note: not recommended for use with HF, H₃PO₄, NaOH and KOH).

APPLICATIONS

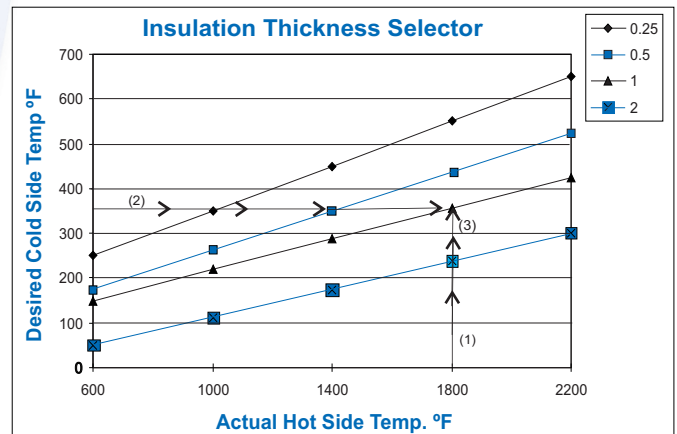
Furnace and boiler linings; chemical reactors, ovens, door seals, reusable steam and gas turbine insulation; mold wraps and investment castings, expansion joint packing, high temperature filters, fire protection, sound absorption, non-contaminating brazing and sintering separators, melting furnace back up insulation, aluminum ladle and trough covers and many more.

Cotronics 370R Blankets are available in 1/4", 1/2" 1", 1 1/2" and 2" thicknesses.

Cat. No.	Temp.	Thickness	Size/Roll
370R-2.....	2300°F.....	1/4".....	24" x 20'
370R-3.....	2300°F.....	1/2".....	24" x 12'
370R-4.....	2300°F.....	1/2".....	24" x 24'
370R-5.....	2300°F.....	1".....	24" x 12'

PROPERTIES

Maximum Temp.	2370°F (1300°C)
Mixed Density (lbs./ft ³)	8
Composition:	
Silica (SiO ₂)	61-82%
Calcium Oxide (CaO ₂)	18-27%
Other	< 5%
Thermal Conductivity (BTU-in. / Hr. Ft ² °F)	
500°F	0.35
1000°F	0.83
1500°F	1.66
2000°F	2.77
Linear Shrinkage (%)	
24 hrs @ 2280°F	< 2
Tensile Strength (psi)	11



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