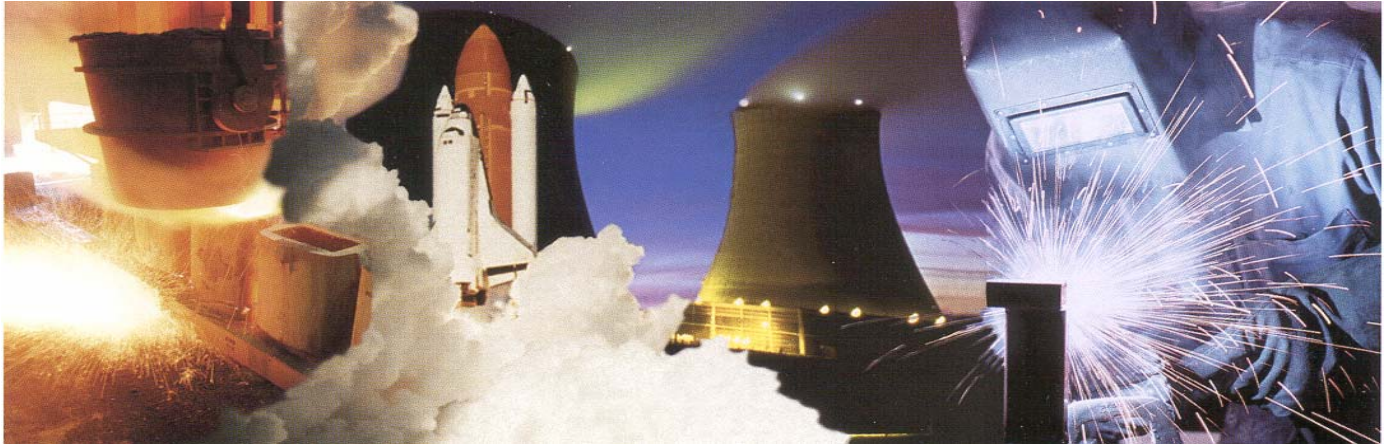


# REFRASIL<sup>®</sup> Cloth

## Refractory Silica Cloth Products



### **REFRASIL Cloth provides continuous protection up to 2300°F.**

REFRASIL textiles are continuous filament, amorphous silica products with the thermal performance of a refractory material. The product is produced through the chemical leaching of specially formulated glass fibers. REFRASIL is >96% silica (SiO<sub>2</sub>), resists oxidation and most corrosive solutions and presents no known health hazard. REFRASIL fiber diameters range from 8 to 10 microns.

REFRASIL textiles will not melt or vaporize until temperatures exceed ~2900°F (1593°C). REFRASIL will insulate continuously and retain strength and flexibility up to 1800°F (982°C).

The most popular form of REFRASIL is woven cloth. REFRASIL cloths are available in a number of different weights and thicknesses.

These cloths come in standard (UC series) as well as pre-shrunk (C series) form. The cloths can also be treated for abrasion resistance (AR series) and continuous temperatures to 2300°F (Irish series). A cost-effective cloth, Welding Grade Cloth (WGC), is also available.

### **FEATURES:**

- Asbestos replacement
- Resilient
- Fireproof
- High temperature insulator resists molten metals and radiant heat
- Compatible with most chemicals
- Low halogen content
- High dielectric strength
- Minimal smoke emission
- Low thermal conductivity
- No known health hazards
- Amorphous structure
- Cost Effective

**AVAILABILITY** - Standard roll size for all REFRASIL cloth is 50 lineal yards ±10% maximum length. No roll contains more than two pieces of fabric and no piece within the roll is less than 10 lineal yards. REFRASIL's textiles are available in a variety of product forms to suit each customer's specific needs-cloth, tape, sleeving, rope, yarn, cordage, batt and bulk fiber. All textiles can be purchased through a nationwide network of stocking distributors.



**HITCO CARBON COMPOSITES, INC.**

1600 West 135<sup>th</sup> St. • Gardena, CA 90249  
www.hitco.com or www.refrasil.com  
e-mail: refrasil@hitco.com  
Tel: 800.421.5444 • 310.527.0700  
Fax: 310.515.1779

# REFRASIL® Cloth

## Refractory Silica Cloth Products



**REFRASIL Welding Grade Cloth (WGC)** - is effective in applications such as welding blankets and screens, personnel protection shields, equipment protection, and stress relieving pads. WGC products have been specifically designed to provide the user with a cost-effective material for commercial and consumable welding applications. When used properly, WGC will protect personnel, equipment, and finishes from molten metal splatter and sparks. The high silica content makes WGC resistant to most chemicals and elements within the 1800°F temperature range. The products' low chloride content makes them suitable for welding stainless steels and ensures against chloride contamination.

### WGC Series

Product Description	Product Code	Color	Nominal Thickness (in.)	Nominal Width (in.)	Weight oz/sq yd.
Standard	WGC-18	Tan	.030	36	18.0

\* Color varies from light cream to tan

**Irish Series – Preshrunk REFRASIL Cloth Extends Temperature Range to 2300° F.** - Irish REFRASIL insulation cloth was developed to extend the temperature range and flexibility characteristics of REFRASIL textiles. The greenish color from which it derives the name Irish is the result of a special high-temperature treatment.

Irish REFRASIL insulation will withstand continuous temperatures to 2300°F with little or no change in properties.

Cloth is the standard form of Irish REFRASIL insulation, which is available in two versions, C1554 and 2221.

Irish REFRASIL 2221 has been treated with a coating for ease of handling and physical integrity during fabricating. Irish 2221 series REFRASIL cloth is also available as a 2 inch, or 4 inch, wide tape.

### Irish Series

Product Description	Product Code	Color	Nominal Thickness (in.)	Nominal Width (in.)
Irish Cloth	C1554-48	Green	.026	33
	C1554-96	Green	.052	33
Treated Irish Cloth	2221-48	Green	.026	33
	2221-96	Green	.052	33

**Standard UC100 and C100 Series Cloth Protect to 1800°F-** REFRASIL standard woven fabric is known as the UC100 series cloth. UC cloths are identified by their tan color. The UC series cloths are available with the following coatings: Pressure sensitive adhesive, Silicone Rubber, Aluminum, Vermiculite, and Black Iron Oxide.\*

### UC Series - Standard Cloth

Product Description	Product Code	Color	Nominal Thickness (in.)	Nominal Width (in.)	Weight oz/sq yd
Super Light	UC100-28	Tan	.015	36	10
Light	UC100-48	Tan	.030	36	18
Heavy	UC100-96	Tan	.056	36	36
Super Heavy	UC100-192SS	Tan	.060	36	40

\* Color varies from light cream to tan

**The C series cloths** - are pre-shrunk versions of the popular UC series cloth and is identified by its white color. The "Pre-shrunk" C series cloth is used in applications where shrinkage cannot be tolerated.

### C Series - PreShrunk Cloth

Product Description	Product Code	Color	Nominal Thickness (in.)	Nominal Width (in.)	Weight oz/sq yd
Light	C100-48	White	.028	33	18
Heavy	C100-96	White	.056	33	35

**Abrasion-Resistant AR100 Series Provides Improved Abrasion Resistance and Strength** - The AR series REFRASIL is coated with a specially formulated coating, making it more abrasion resistant than standard UC series cloth. The AR series REFRASIL is recommended for use in high traffic areas and for fabrication because the coating resists minor damage from dragging, scraping, tearing and snagging. The coating also provides greater seam strength than standard UC series REFRASIL cloth making it an excellent choice as a high temperature fabrication cloth. The AR series REFRASIL is identified by its orange coating. Although there will be a loss of coating from exposure to high temperatures, only the abrasion resistance of the fabric will be affected, not its overall thermal performance.

### AR Series - Abrasion Resistant Cloth

Product Description	Product Code	Color	Nominal Thickness (in.)	Nominal Width (in.)	Weight oz/sq yd
Light	AR100-48	Orange	.032	36	20
Heavy	AR100-96	Orange	.056	36	40



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