High Temperature Specialists

Well-known in the industry for decades, Robco’s High Temperature Division supplies high temperature resistant materials to maximize your operation’s efficiency and meet extreme conditions found in Oil & Gas, Petrochemical, Pulp & Paper, Mining, Metal Transformation, Power Generation and General Industry. Robco’s specialists take pride in the performance of our engineered products that allow you to work smarter.

Since 1911, Robco products are used everywhere in heavy industry as components of original equipment and in aftermarket maintenance and repair.

ISO 9001 and ISO 14001 Certified, our commitment to focusing on engineered solutions has fostered an alignment between our customers’ satisfaction and our success while caring for our environment.

Total Cost of Ownership

Our T.C.O. approach to problem-solving often results in our customers saving more than the acquisition cost of the products supplied.

Robco High Temperature Materials are manufactured at our Montreal, Quebec city and Independence, VA facilities, thus ensuring unsurpassed quality control and quick turnaround times for our North American customers.

Blanks
Boards / Millboards
Cloths / Fabrics
Papers
Ropes
Sleevings
Tapes
Removable Covers
Specialized Products
Robco High Temperature Materials for Heavy Industry

We believe that the best way we can support our customers is by saving energy while protecting personnel, equipment and avoiding injuries: Robco High Temperature Resistant Materials.

Manufacturing Capability

We’re ready! We invest in state-of-the-art equipment to produce quality parts at the best possible cost: whether in the fabrication of small batches of intricate parts or large volume production.

Engineering Group

You’re looking for the best possible life cycle-cost for your applications; we develop custom products to achieve exactly this. Helping our customers is what makes our job fun! We test, reverse-engineer and develop products that will meet your needs.

Implicit Industry Knowledge

Time flies! 100 years in business means a lot of experience under our belt through implicit industry knowledge. The culture of supporting our customers with products that provide value remains intact. You are in good hands with us!

Fabrics, Ropes, Sleevings and Tapes

Available in a choice of thicknesses, grades, weaves, coatings and densities. Fabrics are mostly used as heat shield during welding operations or molten metal works. Ropes and Tapes are manufactured as HT gasket applications, on furnaces, tapping crucibles, etc.

Blankets, Boards and Papers

Available in a range of thicknesses, grades and densities. Engineered to insulate / seal the highest temperatures found in heavy industry from 500°C to 1650°C (900°F to 3000°F). Robco manufactures blanket using a unique, patented process. Cut to size parts available.

Removable Insulating Covers

Robco is the sole vertically-integrated manufacturer of HT removable insulation in Canada. We produce the lightest, most efficient pads on the market, thanks to our unique insulation blankets. All parts custom-made to your requirements to save energy, protect your personnel and reduce thermal exposure in enclosed areas.

Expert Customer Service

Our on-site technicians, high temperature materials and Customer Service departments are available to guide you and answer all your questions in the selection of the ideal product for your application.

We know the Industry

Robco is one of the very few companies in the world that both specializes in fluid sealing components and heat resistant materials, bringing an unequal expertise at your service. Our engineers will identify the optimal product for your applications.
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High Temp. Resistant Materials

BLANKETS

Robco 1200 Matting
Economical dense industrial insulation for piping, power generation, furnaces and ovens, automotive. Removable pads. MIL-I-16411 Type II, MIL-I-24244, ASTM-C-1086-88

Robco Insulite
Unique lightweight insulation used in removable pads for power generation, steam processes, valves and piping where insulation weight during installation is an issue.

Robco Q21 Ceramic Blanket
Economical thermal insulation used as primary or secondary refractory insulation.

Robco Q23 Ceramic Blanket
General purpose thermal insulation for pads or as primary and secondary refractory insulation.

Robco Q26 Ceramic Blanket
Extreme temperature thermal insulation for pads or as primary and secondary refractory insulation.

QBB-1260 - Biosoluble Blanket
General purpose biosoluble thermal insulation for pads or as primary and secondary refractory insulation.

Robco Silica Matting
Mechanically strong at elevated temperatures. Thermal and acoustic insulation, fire protection, heat shields, turbine wrap.

Robco Treo™ - Biosoluble Insulation
Strong and safe for furnace lining, thermal and acoustical insulation, fire protection, heat shields, turbine wrap. (Bio-Safe and meets IARC Group 3 for safe use)

GAUGE GLASS

Maxos® Tempered Borosilicate Gauge Glass

Max. Temp. | Density | Color | Material
---|---|---|---
572ºF (300ºC) | 400-500 g/m² | Clear | Borosilicate #488 Red low pressure Green high pressure
150ºF (65ºC) | 30-400 psi (200-2850 kPa) | Clear | Standard Borosilicate

Robosilicate Tubular Gauge Glass Standard or Red Line

Max. Temp. | Weight | Color | Material
---|---|---|---
150ºF (65ºC) | 100-210 psi (6.8-14.5 kg/cm²) | Clear | Borosilicate #488 Red low pressure Green high pressure

Borosilicate Tubular Gauge Glass Heavy Wall & Heavy Wall Red Line

Max. Temp. | Weight | Color | Material
---|---|---|---
150ºF (65ºC) | 300-600 psi (2000-4000 kPa) | Clear | Standard Borosilicate

Borosilicate Tubular Gauge Glass High Pressure

Max. Temp. | Weight | Color | Material
---|---|---|---
150ºF (65ºC) | 100-390 psi (670-2690 kPa) | Clear | Borosilicate #488 Red low pressure Green high pressure

COATED GLASS FABRICS

Robco 2175 Cloth
Light Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079/H Type 1, Class 9.

Robco 2175 Navy Red Cloth
Red colored insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079/H Type 1, Class 9.

Robco 2240 Cloth
Medium-light Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079/H Type 1, Class 9.

Robco 2240 Aluminized Cloth
Aluminum foil laminated to glass cloth used for removable pads, curtains, blankets, gloves, pants, jackets, sleeving, lagging cloth, vapor and flange shields.

Robco 2240 Cloth with PTFE Coating
Insulation and/or flexible gasketing applications where chemical resistance is needed.

Robco 2260 with High Temperature Treatment
Twill woven from HT glass, 2260 is ideally suited for continuous exposure to 1400ºF. Applications include: Expansion joints, Jacketing, Fire blankets.

Robco 2360 Cloth
Medium Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079/H Type 1, Class 9.

Robco 3000C Series
Mineral impregnated glass fabric. Chemical resistance at high temperature fluorinated compound applications for the aluminum industry.

Robco 3000CSB Series
Heavy silicone (one side) coated fabric impregnated with an inert mineral. Chemical resistance in high temperature fluorinated compound applications for the aluminum industry.

Robco 3640 Cloth
Heavy Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079/H Type 1, Class 9.

Robco 50-1406
Heavy PTFE coated expansion joint belt glass fabric laminated with insulation mat applications requiring an upper use continuous temperature of 1000ºF.
COATED GLASS FABRICS

Robco 6800T Rubberized Cloth
Flexible gasket used in flange joints for air, cold water, hot water or brine. Also, for boiler access opening gaskets, heater door, autoclaves, dryers and tank doors.

Robco 6800TW Wire-reinforced Rubberized Cloth
Wire reinforced flexible gasket used in flange joints for air, cold water, hot water or brine. Also, for boiler access opening gaskets, heater door, autoclaves, dryers and tank doors.

Robco 7170 Silicone Coated Cloth
High quality silicone coated fabric used for removable pads.

Robco 7171-R Welding Cloth
Thin silicone coated fabric used in vertical welding operations.

Robco 7320-Grey Silicone
General purpose welding blanket for all types of welding applications. Used in insulation jacketing applications.

Robco 7320-R Welding Protective Curtains
Preferred general purpose welding blanket for all types of welding operations. Used in insulation jacketing applications.

Robco 9140 PTFE Coated Cloth
Fabric, impregnated, coated and sintered with PTFE. Used in the fabrication of insulation removable covers.

Robco 9165 PTFE Coated Cloth
Fabric, impregnated, coated and sintered with PTFE. Most popular choice for insulation removable covers.

Robco 9180 PTFE Coated Cloth
Fabric, impregnated, coated and sintered with PTFE. Used in the fabrication of insulation removable covers.

Robco GVC 2000 Vermiculite Coated Cloth
Mineral coating allows short term high temperature exposure. For safety apparel, curtains, blankets, shields, insulation for piping, jackets and gasketing.

Robco GVC 3500 Vermiculite Coated Cloth
Mineral coating allows short term high temperature exposure. For safety apparel, curtains, blankets, shields, insulation for piping, jackets and gasketing.

Max. Temp. | Weight | Color | Material
--- | --- | --- | ---
400°F | 70 oz/yd² (231.3 g/m²) | Ivory | Rubber coated E-Glass cloth - laminated for thicker versions
500°F | 72 oz/yd² (2441 g/m²) | Ivory | Wire reinforced rubber coated E-Glass cloth - laminated for thicker versions
500°F | 17 oz/yd² (576 g/m²) | Silver | Silicone Coated & Impregnated E-Glass Cloth
800°F | 18 oz/yd² (610.50 g/m²) | Red-Oxyde | Silicone Coated E-Glass Welding Cloth
800°F | 32 oz/yd² (1085 g/m²) | Red-Oxyde | Silicone Coated E-Glass Welding Cloth
600°F | 14 oz/yd² (475 g/m²) | Grey | PTFE Coated & Impregnated E-Glass Cloth
550°F | 17 oz/yd² (576 g/m²) | Grey or Aluminum Other colors | PTFE Coated & Impregnated E-Glass Cloth
550°F | 18 oz/yd² (610 g/m²) | Grey | PTFE Coated & Impregnated E-Glass Cloth
1000°F | 18 oz/yd² (610 g/m²) | Gold | Vermiculite Coated E-Glass Cloth
1000°F | 35 oz/yd² (1187 g/m²) | Gold | Vermiculite Coated E-Glass Cloth

BOARDS AND PAPERS

Robco 700 Millboard
High density board with fire resistance, used as high temperature insulating plates, thermal barrier for crucibles, gaskets, insulation for boiler or furnace doors, etc.

Robco 720 Millboard
Economical board with fire resistance, used as high temperature insulating plates, thermal barrier for crucibles, insulation for boiler or furnace doors, etc.

Robco Ceramic Board 805
Economical semi-rigid insulation. Ideal for use as high temperature/low pressure gaskets. Low thermal conductivity and homogeneous density.

Robco Ceramic Board 806
Semi-rigid insulation. Ideal for use as high temperature/low pressure gaskets. Low thermal conductivity and homogeneous density.

Robco Ceramic Paper 630
Economical soft insulation material also used for high temp and low pressure gasketing. Fair thermal conductivity.

Robco Ceramic Paper 990
Soft insulation material also used for high temperature and low pressure gasketing. Low thermal conductivity.

Robco Mica Slip-Plane

Robco Mica Phlogopite
The best choice for sheeting, refractory, separator and insulation foil. Its resilience is useful for some applications. Meets: IEC 371-3, VDE 0332 / DIN 40612 – FLM

Robco Mica Plate M
Press Insulation between Platen and Die. Thermal and Electrical Insulators. Replaces Asbestos Cement Plates.

Transite HT
An economical liner for core, drying and carrying plates, induction furnaces, casings, busbar supports, electrode arm insulation. Used as load bearing gaskets, spacers, supports and machined parts for OEM applications.
Packing for high temperature sealing applications; such as boilers specifically to attach removable pad covers exposed to outside elements. Heavy duty packing rope for coke batteries, goose necks, and lifespans.

**Material Summary**

- **Max. Temp.**
  - Continuous: 3000°F (1649°C) - 1832°F (1000°C)
  - Continuous: 1812°F (1000°C) - 1200°F (650°C) - 600°F (315°C)
- **Weight**
  - Continuous: 10 oz/yd² (34 oz/yd²) - 22 oz/yd² (68 oz/yd²)
- **Color**
  - Tan - Blue / Gold - Silver - Yellow - Red
- **Material**
  - Silicone - Glass - E-Glass - Ceramic Fiber - Kevlar®/Nomex®

**Silica Twisted and Braided Ropes**

- **Robco 350-S Rope**
  - Medium density packing rope for doors on wood stoves, Industrial ovens and boilers as well as tadpole tape core.

**Economic packing rope for doors on wood stoves, Industrial ovens and boilers as well as tadpole tape core.**

**Mixed Twisted and Braided Ropes**

- **Robco 290 Crucible Lid Seal**
  - Custom-made for crucible lid covers found in the aluminum industry, this dense packing rope can incorporate various elastomeric core, Inconel wire reinforcement as well as industry, this dense packing rope can incorporate various mineral coatings to enhance resiliency, sealability and elastomeric core, Inconel wire reinforcement as well as

**Specialized Fabrics**

- **Robco EJTM12**
  - 100% PTFE film provides outstanding flexing and chemical resistance for expansion joints, removale pad covers, tubing and steam lines.

- **Robco Perfluoroplastic Coated Kevlar® Fabric**
  - Material of choice where durable, impervious, flexible fabric is required for expansion joint belts, tadpole tapes and other applications where high mecanical strengh is needed.

- **Robco PT-I High Temperature Refractory & Intumescent Coating**
  - Designed with an intumescent reaction starting at a higher temperature than conventional intumescent coatings, thus enabling to use it in hot environments.

**For more information, visit www.robco.com**
### Specialized Fabrics

- **RobcoGuard Plastic Flame-Retardant Protection**
  - Temporary protection for all types of indoor and outdoor finishes such as walls, paneling, bulkheads and doors.
  - Also useful for protecting large objects and large furniture.

- **RobcoGuard Floor**
  - Temporary protection of carpet, vinyl, lino, scored, wood, steel, poured resin floors, walkways, open areas, weather decks, flight decks, pillars, bulkheads cabins and control rooms.

- **Robco Knitted Wire Insulation Mesh**
  - Ideal for fabricating removable and reusable insulation blankets for thermal insulation systems. Excellent for marine, aerospace, industrial, and commercial pad construction.

### Fabricated Products

- **Robco Larvy Car Seal**
  - Superior specialty gas seal used mostly on coke batteries and homogenizing furnaces where durability is essential.

- **Robco Waste Gas Boots**
  - Flexible connectors operating at extreme temperatures, especially on anode baking pits.

- **Robco Enviropak B.O.P. Ram Seal**
  - High pressure sealing component for use in blow out preventers using steam injection during oil extraction.

- **Fiberglass Tent Rings**
  - Used to insulate tent fabric from hot chimney exhaust.

### Tapes and Tubings

#### Tapes and Tubings

- **Robco 1180 & F120 Ceramic Tapes**
  - Extreme temperature insulation tape used as gasket and wrapping material. Main uses include: furnace coil insulation, cable and wire insulation, infrared radiating diffusers, “mop style” curtains.
  - 1180 is Inconel wire reinforced / F120 is glass reinforced

- **Robco GW-Series fiberglass Tape**
  - Used as low pressure/high temperature gasket on thin flanges as well as wrapping of pipes, odd shapes, etc. where high temperature is an issue.

- **Robco Silica Sleeping**
  - Molten metal resistant flexible sleeving for protection for pneumatic and hydraulic hose covering and electric cable protection.

- **Robco Silicone Coated Fiberglass Sleeving**
  - Impervious Silicone coating prevents fluid absorption.
  - Extreme heat insulation or thermal protection; Power generation, furnace, shipbuilding, construction, welding and metal processing industries. Also used as ‘mop style’ furnace curtains, furnace door gasketing and high temperature seals.

- **Robco Woven Silica Tapes**
  - Extreme heat insulation or thermal protection; Power generation, furnace, shipbuilding, construction, welding and metal processing industries. Also used as ‘mop style’ furnace curtains, furnace door gasketing and high temperature seals.

### Ropes

- **Robco 267 Firm Rope (Round or square)**
  - Firm density packing rope for doors on wood stoves, industrial ovens and boilers as well as tarpole tape core.

- **Robco 267 with PTFE**
  - Sealing of pressure vessels lid seals, valves, boilers, autoclaves, etc. where a high density packing is required.

- **Robco 271 Rope**
  - An excellent seal for wood stoves, caulkings for oven or furnace doors, lining for expansion joints, and core for high temperature packing.
### Specialized Fabrics

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Description</th>
<th>Color</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RobcoGuard Plastic Flame-Retardant Protection</td>
<td>Temporary protection for all types of indoor and outdoor finishes such as walls, paneling, bulkheads, and floors. Also useful for protecting large objects and large furniture.</td>
<td>Blue</td>
<td>Flame Retardant Polyethylene / Polyester scrim</td>
<td>NA</td>
</tr>
<tr>
<td>RobcoGuard Floor</td>
<td>Temporary protection of carpet, vinyl, lino, scored, wood, steel, poured resin floors, walkways, open areas, weather decks, flight decks, pillars, bulkheads cabins and control rooms.</td>
<td>Blue</td>
<td>Flame Retardant Polyethylene</td>
<td>NA</td>
</tr>
<tr>
<td>Robco Knitted Wire Insulation Mesh</td>
<td>Ideal for fabricating removable and reusable insulation blankets for thermal insulation systems. Excellent for marine, aerospace, industrial, and commercial pad construction.</td>
<td>Inconel</td>
<td>Monel 400</td>
<td>NA</td>
</tr>
</tbody>
</table>

### Fabracted Products

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Robco Larry Car Seal</td>
<td>Superior specialty gas seal used mostly on coke batteries and homogenizing furnaces where durability is essential.</td>
<td>NA</td>
<td>Inconel 601 wire mesh, ceramic, silica</td>
<td>Custom sizes</td>
</tr>
<tr>
<td>Robco Waste Gas Boots</td>
<td>Flexible connectors operating at extreme temperatures, especially on anode baking pits.</td>
<td>Orange / Beige</td>
<td>Various upon requirements</td>
<td>3” to 96” ID</td>
</tr>
<tr>
<td>Robco Enviropak B.O.P. Ram Seal</td>
<td>High pressure sealing component for use in blow out preventers using steam injection during oil extraction.</td>
<td>White</td>
<td>High temperature substrate, PTFE, binder</td>
<td>Various diam. 1/16” – 3/8”</td>
</tr>
<tr>
<td>fiberglass Tent Rings</td>
<td>Used to insulate tent fabric from hot chimney exhaust.</td>
<td>Off-white</td>
<td>fiberglass, elastomer compound</td>
<td>Various diam. 0.25” to 2” OD</td>
</tr>
</tbody>
</table>

### Tapes and Tubings

<table>
<thead>
<tr>
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<th>Color</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robco 1180 &amp; F120 Ceramic Tapes</td>
<td>Extreme temperature insulation tape used as gasket and wrapping material. Main uses include: furnace coil insulation, cable and wire insulation, infrared radiation diffusers, “mop style” curtains.</td>
<td>N/A</td>
<td>White</td>
<td>Span ceramic fiber ecoreglass or teconel carrier – small amount organic binder</td>
</tr>
<tr>
<td>Robco Glass-Fiber Bonded Tape</td>
<td>Used as low pressure/high temperature gasket on thin flanges as well as wrapping of pipes, odd shapes, etc. where high temperature is an issue.</td>
<td>N/A</td>
<td>White</td>
<td>E-Glass continuous filament</td>
</tr>
<tr>
<td>Robco Silica Sleeve</td>
<td>Molten metal resistant flexible sleeving for protection for pneumatic and hydraulic hose covering and electric cable protection.</td>
<td>NA</td>
<td>Tan</td>
<td>96% minimum silica</td>
</tr>
<tr>
<td>Robco G0-Series Fiber Glass Drop Wrap</td>
<td>Ladder weaved high temperature tape to allow easy bolting on thin flanges.</td>
<td>NA</td>
<td>Red</td>
<td>6% – 4.5%</td>
</tr>
<tr>
<td>Robco Woven Silica Tapes</td>
<td>Extreme heat insulation or thermal protection. Power generation, furnace, shipbuilding, construction, welding and metal processing industries. Also used as “mop style” furnace curtains, furnace door gasketing and high temperature seals.</td>
<td>NA</td>
<td>Tan</td>
<td>96% minimum silica “woven edges”</td>
</tr>
</tbody>
</table>

### Ropes

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Robco 267 Firm Rope</td>
<td>Firm density packing rope for doors on wood stoves, industrial ovens and boilers as well as tadpole tape core.</td>
<td>White</td>
<td>E-Glass yarn, square or round braided – high density</td>
<td>0.25” – 2” OD</td>
</tr>
<tr>
<td>Robco 267 with PTFE</td>
<td>Sealing of pressure vessels lid seals, valves, boilers, autoclaves, etc. where a high density packing is required.</td>
<td>White</td>
<td>E-Glass yarn. Saturated with high volume PTFE</td>
<td>0.25” – 2” OD</td>
</tr>
<tr>
<td>Robco 271 Rope</td>
<td>An excellent seal for wood stoves, caulkng for oven and furnace doors, lining for expansion joints, and core for high temperature packing.</td>
<td>White</td>
<td>E-Glass continuous</td>
<td>0.25” – 2” OD</td>
</tr>
</tbody>
</table>
**ROPES**

**Robco 273 Rope**
Medium density packing rope for doors on wood stoves, industrial ovens and boilers as well as tadpole tape core.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Density</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000°F (538°C)</td>
<td>Medium</td>
<td>White</td>
<td>E-Glass textured yarn. Round braided - medium density</td>
</tr>
</tbody>
</table>

**Robco 280 Biosoluble Fiber**
Specialty rope designed to provide sealing during rodding of cathodes with collector bars.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Density</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1812°F (1000°C)</td>
<td>Dense</td>
<td>Green</td>
<td>Biosoluble fiber – small amount organic binder. Square or round braided</td>
</tr>
</tbody>
</table>

**Robco 290 Crucible Lid Seal**
Custom-made for crucible lid covers found in the aluminum industry, this dense packing rope can incorporate various elastomeric core, Inconel wire reinforcement as well as surface mineral coatings to enhance resiliency, sealability and lifespan.

<table>
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<th>Density</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1700°F (923°C)</td>
<td>Very dense</td>
<td>Blue / Gold</td>
<td>Chemically treated Glass with additives. Square or round braided</td>
</tr>
</tbody>
</table>

**Robco 290 Series Ropes**
Heavy duty packing rope for caulk batteries, goose necks, tapping crucible seal.

<table>
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<th>Max. Temp.</th>
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<th>Color</th>
<th>Material</th>
</tr>
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<tbody>
<tr>
<td>1400°F (750°C)</td>
<td>Varies</td>
<td>Blue / Gold</td>
<td>Chemically treated Glass. Square or round braided</td>
</tr>
</tbody>
</table>

**Robco 350 D-Rope (Tight Knit)**
Economical packing rope for doors on wood stoves, industrial ovens and boilers as well as tadpole tape core.

<table>
<thead>
<tr>
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<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000°F (538°C)</td>
<td>Soft</td>
<td>White</td>
<td>E-glass, continuous filament. Knitted dense</td>
</tr>
</tbody>
</table>

**Robco 350 S-Rope (Loose Knit)**
Economical packing rope for doors on wood stoves, industrial ovens and boilers as well as tadpole tape core.

<table>
<thead>
<tr>
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<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000°F (538°C)</td>
<td>Very soft</td>
<td>White</td>
<td>E-Glass textured yarn. Knitted soft</td>
</tr>
</tbody>
</table>

**Robco 78 Glass Lagging Rope**
Consists of HT fibers assembled with an open braided jacket used for lining steam lines.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Density</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000°F (538°C)</td>
<td>Very dense</td>
<td>White</td>
<td>Bulk high temperature fibers held by light braided jacket.</td>
</tr>
</tbody>
</table>

**Robco Ceramic Ropes (274 Twisted, 275 Round or Square)**
High temperature gasketing and packing for boilers and furnaces. Used as tadpole seal core. Also available with Inconel wire insertion.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Density</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2300°F (1260°C)</td>
<td>275 - Dense 174 - Medium</td>
<td>White</td>
<td>Ceramic fiber and small amount of organic binder. Square or round braided</td>
</tr>
</tbody>
</table>

**Poly / Fiberglass Knitted Rope**
Braided specifically to attach removable pad covers exposed to outside elements.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>450°F (232°C)</td>
<td>Off White</td>
<td>Knitted polyester jacket and E-Glass core.</td>
</tr>
</tbody>
</table>

**Silica Twisted and Braided Ropes**
Packaging for high temperature sealing applications; such as tadpole tape cores, furnace door gaskets, high temperature caulking, and coke oven door seals.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000°F (1649°C)</td>
<td>Tan</td>
<td>96% minimum Silica. Round Braided</td>
</tr>
</tbody>
</table>

---

**SILICA / CERAMIC FABRICS**

**Robco 84CH & 188CH**
Ideal extreme temperature welding protection. Thermal and electrical insulation. Reducing heat loss in oven and furnace operations. 188CH is recommended for horizontal welding.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000°F (1649°C)</td>
<td>Continuous 1812°F (1000°C)</td>
<td>18-36 oz/yd² (610-1221 g/m²)</td>
<td>Silver / Tan</td>
</tr>
</tbody>
</table>

**Robco 84CSR & 188CSR Silicone Coated**
Silicone coated to prevent fabric contamination, while silicone cloth provides maximum thermal protection. Used to protect sensitive equipment in filthy environments.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1812°F (1000°C)</td>
<td>19-38 oz/yd² (712-1322 g/m²)</td>
<td>Red one side / Tan</td>
<td>Silicone coated 94% Silica cloth</td>
</tr>
</tbody>
</table>

**Robco 135W & 135F Ceramic Cloths**
Extreme temperature fabric mainly used to produce tadpole gaskets, exhaust line covers and wrapped protection.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200°F - 2000°F (650°C - 1090°C)</td>
<td>44-46 oz/yd² (1480-1560 g/m²)</td>
<td>White</td>
<td>Spun ceramic fiber onto Glass or Inconel carrier</td>
</tr>
</tbody>
</table>

**SPECIALIZED FABRICS**

**Robco CLT 9704-2F (for expansion joints)**
Laminated coated fabric with an insulating blanket specifically for expansion joint belts. Heavy PTFE coating provides outstanding chemical resistance.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>600°F (315°C)</td>
<td>38 oz/yd² (1289 g/m²)</td>
<td>Tan</td>
<td>Heavy E-Glass saturated and coated with PTFE</td>
</tr>
</tbody>
</table>

**Robco EJM12**
100% PTFE film provides outstanding flexing and chemical resistance for expansion joints, removable pad covers, tubing and steam lines.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>500°F (260°C)</td>
<td>34 oz/yd² (1153 g/m²)</td>
<td>Blue / Gray</td>
<td>100 % PTFE film</td>
</tr>
</tbody>
</table>

**Robco Kevlar®/Nomex® Cloth**
High abrasion resistant cloth for piping, jacketing, flexible gaskets where high heat and mechanical strength is needed.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>400°F (204°C)</td>
<td>22 oz/yd² (746 g/m²)</td>
<td>Yellow</td>
<td>Kevlar/Nomex yarns/E-Glass, aluminized mylar</td>
</tr>
</tbody>
</table>

**Robco Kevlar®/Nomex® Cloth Aluminized**
High abrasion resistant cloth used in protective clothing such as gloves, mittens, pants and jackets.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>400°F (204°C)</td>
<td>17 oz/yd² (576 g/m²)</td>
<td>Silver / Yellow</td>
<td>Kevlar/Nomex yarns/E-Glass, aluminized mylar</td>
</tr>
</tbody>
</table>

**Robco Perfluoroplastic Coated Kevlar® Fabric**
Material of choice where durable, impermeable, flexible fabric is required for expansion joint belts, tadpole tapes and other applications where high mechanical strenght is needed.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>400°F (204°C)</td>
<td>10 oz/yd² (339 g/m²)</td>
<td>Yellow</td>
<td>Perfluoroplastic / Kevlar composite</td>
</tr>
</tbody>
</table>

**Robco Perfluoroplastic Coated Kevlar® Fabric**
Material of choice where durable, impermeable, flexible fabric is required for expansion joint belts, tadpole tapes and other applications where high mecanical strenght is needed.

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2300°F (1260°C)</td>
<td>1.33/25°C</td>
<td>Silver / Yellow</td>
<td>Two-part refractory / intumescent fire retardant coating</td>
</tr>
</tbody>
</table>
**COATED GLASS FABRICS**

- **Robco 6800T Rubberized Cloth**
  - Flexible gasket used in flange joints for air, cold water, hot water or brine. Also, for boiler access opening gaskets, heater door, autoclaves, dryers and tank doors.
  - Max. Temp: 700ºF (370ºC), Weight: 10 oz/yd² (34 g/m²), Color: Red, Material: Rubber coated E-Glass cloth - laminated for thicker versions.

- **Robco 6800TW Wire-reinforced Rubberized Cloth**
  - Wire reinforced flexible gasket used in flange joints for air, cold water, hot water or brine. Also, for boiler access opening gaskets, heater door, autoclaves, dryers and tank doors.

- **Robco 7170 Silicone Coated Cloth**
  - High quality silicone coated fabric used for removable pads.
  - Max. Temp: 550ºF (288ºC), Weight: 20 oz/yd² (69 g/m²), Color: Silver, Material: Silicone Coated Impregnated E-Glass Cloth.

- **Robco 7171-R Welding Cloth**
  - Thin silicone coated fabric used in vertical welding operations.
  - Max. Temp: 600ºF (316ºC), Weight: 20 oz/yd² (69 g/m²), Color: Red, Material: Silicone Coated E-Glass Welding Cloth.

- **Robco 7320-Grey Silicones**
  - General purpose welding blanket for all types of welding applications. Used in insulation jacketing applications.

- **Robco 7320-R Welding Protective Curtains**
  - Preferred general purpose welding blanket for all types of welding operations. Used in insulation jacketing applications.

- **Robco 9140 PTFE Coated Cloth**
  - Fabric, impregnated, coated and sintered with PTFE. Used in the fabrication of insulation removable covers.
  - Max. Temp: 600ºF (316ºC), Weight: 14 oz/yd² (47 g/m²), Color: Grey, Material: PTFE Coated Impregnated E-Glass Cloth.

- **Robco 9165 PTFE Coated Cloth**
  - Fabric, impregnated, coated and sintered with PTFE. Most popular choice for insulation removable covers.
  - Max. Temp: 550ºF (288ºC), Weight: 17 oz/yd² (57 g/m²), Color: Grey or Aluminium Other colors available, Material: PTFE Coated Impregnated E-Glass Cloth.

- **Robco 9180 PTFE Coated Cloth**
  - Fabric, impregnated, coated and sintered with PTFE. Used in the fabrication of insulation removable covers.
  - Max. Temp: 550ºF (288ºC), Weight: 18 oz/yd² (61 g/m²), Color: Grey, Material: PTFE Coated Impregnated E-Glass Cloth.

- **Robco GVC 200 Vermiculite Coated Cloth**
  - Mineral coating allows short term high temperature exposure. For safety apparel, curtains, blankets, shields, insulation for piping, jackets and gasketing.
  - Max. Temp: 1000ºF (538ºC), Weight: 18 oz/yd² (61 g/m²), Color: Gold, Material: Vermiculite Coated E-Glass Cloth.

- **Robco GVC 3500 Vermiculite Coated Cloth**
  - Mineral coating allows short term high temperature exposure. For safety apparel, curtains, blankets, shields, insulation for piping, jackets and gasketing.
  - Max. Temp: 1000ºF (538ºC), Weight: 35 oz/yd² (118 g/m²), Color: Gold, Material: Vermiculite Coated E-Glass Cloth.
## Blankets

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Density</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200°F (649°C)</td>
<td>6.11 lb/ft³ (96-178g/m³)</td>
<td>White</td>
<td>Long needed glass fibers. 100% recycled material</td>
</tr>
<tr>
<td>1100°F (593°C)</td>
<td>5.5 lb/ft³ (80kg/m³)</td>
<td>White</td>
<td>Glass fibers</td>
</tr>
<tr>
<td>2000°F (1093°C)</td>
<td>6.8 lb/ft³ (96-128g/m³)</td>
<td>White</td>
<td>Long glass fibers. Needled.</td>
</tr>
<tr>
<td>2300°F (1260°C)</td>
<td>6.8 lb/ft³ (96-128g/m³)</td>
<td>White</td>
<td>Long glass fibers. Needled.</td>
</tr>
<tr>
<td>2552°F (1400°C)</td>
<td>6.8 lb/ft³ (96-128g/m³)</td>
<td>White</td>
<td>Long glass fibers. Needled.</td>
</tr>
<tr>
<td>2800°F (1549°C)</td>
<td>8 lb/ft³ (120-160g/m³)</td>
<td>Tan</td>
<td>Long glass fibers. Needled.</td>
</tr>
<tr>
<td>1600°F (870°C)</td>
<td>8 lb/ft³ (120-178g/m³)</td>
<td>Tan</td>
<td>Vitreous silica fibre and E-Glass. 100% recycled materials.</td>
</tr>
<tr>
<td>2000°F (1093°C)</td>
<td>8 lb/ft³ (120-160g/m³)</td>
<td>Tan</td>
<td>Long glass fibers. Needled.</td>
</tr>
<tr>
<td>3572°F (1967°C)</td>
<td>30-450 psi (200-3000 kpa)</td>
<td>Clear</td>
<td>Borosilicate 444B Red - low pressure Green - high pressure</td>
</tr>
</tbody>
</table>

## Coated Glass Fabrics

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000°F (538°C)</td>
<td>17.5 oz/yd² (595 g/m²)</td>
<td>White</td>
<td>E-Glass continuous textured multifilament</td>
</tr>
<tr>
<td>2000°F (1093°C)</td>
<td>24 oz/yd² (814 g/m²)</td>
<td>White</td>
<td>E-Glass continuous textured multifilament, PTFE Coating</td>
</tr>
<tr>
<td>1325°F (719°C)</td>
<td>26 oz/yd² (882 g/m²)</td>
<td>Salmon</td>
<td>E-Glass continuous textured multifilament, heat treated</td>
</tr>
<tr>
<td>1000°F (538°C)</td>
<td>36 oz/yd² (1220 g/m²)</td>
<td>White</td>
<td>E-Glass continuous textured multifilament</td>
</tr>
<tr>
<td>1000°F (538°C)</td>
<td>20-100 oz/yd² (667-3390 g/m²)</td>
<td>Black</td>
<td>E-Glass continuous textured multifilament with unique inert coating</td>
</tr>
<tr>
<td>1000°F (538°C)</td>
<td>20-100 oz/yd² (667-3390 g/m²)</td>
<td>Black</td>
<td>E-Glass continuous textured multifilament with unique inert coating and silicone</td>
</tr>
<tr>
<td>1000°F (538°C)</td>
<td>64 oz/yd² (2170 g/m²)</td>
<td>White</td>
<td>E-Glass continuous textured multifilament</td>
</tr>
</tbody>
</table>

## Coated Glass Fabrics

<table>
<thead>
<tr>
<th>Max. Temp.</th>
<th>Weight</th>
<th>Color</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000°F (538°C)</td>
<td>101 oz/yd² (3425 g/m²)</td>
<td>Beige</td>
<td>E-glass insulation &amp; fabric - heavy PTFE</td>
</tr>
</tbody>
</table>

---


**Robco Insultile**

Unique lightweight insulation used in removable pads for power generation, steam processes, valves and piping where insulation weight during installation is an issue.

General purpose biosoluble thermal insulation for pads or as secondary refractory insulation.

**Robco Q11 Ceramic Blanket**

Economical thermal insulation used as primary or secondary refractory insulation.

**Robco Q21 Ceramic Blanket**

Economical thermal insulation used as primary or secondary refractory insulation.

**Robco Q22 Ceramic Blanket**

General purpose thermal insulation for pads or as primary and secondary refractory insulation.

**Robco Q26 Ceramic Blanket**

Extreme temperature thermal insulation for pads or as primary and secondary refractory insulation.

**QBB-1260 - Biosoluble Blanket**

General purpose biosoluble thermal insulation for pads or primary and secondary refractory insulation.

**Robco Silica Matting**

Mechanically strong at elevated temperatures. Thermal and acoustic insulation, fire protection, heat shields, turbine wrap.

**Robco Treo** - Biosoluble Insulation

Strong and safe for furnace lining, thermal and acoustical insulation, fire protection, heat shields, turbine wrap. (BioSafe and meets IARC Group 3 for safe use).

**Robco 1200 Matting**


**Robco 2215 Cloth**

Light Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079H Type 1, Class 9.

**Robco 2215 Navy Red Cloth**

Red colored insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079H Type 1, Class 9.

**Robco 2240 Cloth**

Medium-light Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079H Type 1, Class 9.

**Robco 2240 Aluminized Cloth**

Aluminum foil laminated to glass cloth used for removable pads, curtains, blankets, gloves, pants, jackets, sleeving, lagging cloth, vapor and flame shields.

**Robco 2420 Cloth with PTFE Coating**

Insulation and/or flexible gasketing applications where chemical resistance is needed.

**Robco 2260 with High Temperature Treatment**

Twill woven from HT glass, 2260 is ideally suited for continuous exposure to 1400°F. Applications include: Expansion joints, Jacketing, Fire blankets.

**Robco 2360 Cloth**

Medium Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079H Type 1, Class 9.

**Robco 3000C Series**

Mineral imregnated glass fabric. Chemical resistance at high temperature fluorinated compound applications for the aluminum industry.

**Robco 3000CSB Series**

Heavy silicone (one side) coated fabric imregnated with an inert mineral. Chemical resistance in high temperature fluorinated compound applications for the aluminum industry.

**Robco 3640 Cloth**

Heavy Glass cloth used for insulation for piping, jacketing, fire blankets. Resists most acids, alkalis and solvents. Fire resistant MIL-C-20079H Type 1, Class 9.

**Robco 50-1406**

Heavy PTFE coated expansion joint belt glass fabric laminated with insulation material applications requiring an upper use continuous temperature of 1000°F.
High Temperature Specialists

Well-known in the industry for decades, Robco’s High Temperature Division supplies high temperature resistant materials to maximize your operation’s efficiency and meet extreme conditions found in Oil & Gas, Petrochemical, Pulp & Paper, Mining, Metal Transformation, Power Generation and General Industry. Robco’s specialists take pride in the performance of our engineered products that allow you to work smarter.

Since 1911, Robco products are used everywhere in heavy industry as components of original equipment and in aftermarket maintenance and repair.

ISO 9001 and ISO 14001 Certified, our commitment to focusing on engineered solutions has fostered an alignment between our customers’ satisfaction and our success while caring for our environment.

Total Cost of Ownership

Our T.C.O. approach to problem-solving often results in our customers saving more than the acquisition cost of the products supplied.

Robco High Temperature Materials are manufactured at our Montreal, Quebec city and Independence, VA facilities, thus ensuring unsurpassed quality control and quick turnaround times for our North American customers.

- Blankets
- Boards / Millboards
- Cloths / Fabrics
- Papers
- Ropes
- Sleevings
- Tapes
- Removable Covers
- Specialized Products