High Temperature Insulation Textiles & Accessories for Industry

ISO 9001-2000 Certified

Felts & Blankets
Treated Fabrics
Accessories
Threads
Hogrings

Specialty Products, Inc.
High Temperature Insulation Textiles

ISO 9001-2000 Certified
High Temperature Felts & Blankets

E Glass Felts & Blankets

Lewco E Glass Felts and Blankets are composed of 100% select-grade type “E” glass fibers needled together into blanket form. It is INCOMBUSTIBLE, ASBESTOS-FREE and contains NO RESINOUS OR INORGANIC BINDERS. Lewco Glass Mat can be used on equipment operating at temperatures to 1200°F and will not deteriorate or shake apart in vibrating applications. Conforms to Mil. Spec. Mil-I-16411, Mil-I-24244, ASTM E-84. Smoke -O, Flame -O NRC-1.36.

Silica Felts & Blankets

Lewco Sil Felts and Blankets insulation is manufactured using 98% pure textile grade silica fiber needled together into blanket/felt form. Lewco Sil blanket base fiber is made through a hot extrusion process yielding a 6-11 micron, non-respirable fiber. This fiber is then processed to maximize thermal efficiency. Lewco Sil Mat is INCOMBUSTIBLE, ASBESTOS FREE, NON-RESPIRABLE, and contains no INORGANIC or RESINOUS BINDERS. Typical applications include engine exhaust system insulation, hot industrial equipment insulation, and many others. Maximum continuous temperature is 1800°F.

Silica/Fiberglass Composite Blankets

Lewco can combine our Silica and Fiberglass insulation felts into needled composites that for many insulation applications can give customers the pricing advantage of Fiberglass with the high temperature properties of Silica fiber. Lewco can combine these two different felts into various thickness combinations to meet customer requirements. These insulation felt and blanket composites are strong enough to give long life in tough, difficult applications. Applications include Stress Relief blankets, Removable/Reusable Insulation for high noise level, high maintenance, high vibration and high temperature equipment or engine exhaust systems.

Ceramic Fiber Products/Blankets

Lewco Refractory Ceramic Fiber products have two temperature grades — 2300°F and 2610°F. Lewco Ceramic Fiber Products feature a broad family of products that include Bulk Fiber, Needle Felted Blanket, Paper and Textiles. The products are ideal for High Temperature furnaces, filtration, gasket applications, stress relieving and other refractory applications.

Typical Properties

<table>
<thead>
<tr>
<th></th>
<th>Silica</th>
<th>Fiberglass</th>
<th>Ceramic Fiber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>3000°F</td>
<td>1523°F</td>
<td>3200°F</td>
</tr>
<tr>
<td>Maximum Continuous Operating Temperature</td>
<td>1800°F</td>
<td>1200°F</td>
<td>2150°F</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>&lt;7% (Continuous 1800°F)</td>
<td>______</td>
<td>______</td>
</tr>
<tr>
<td>Thickness</td>
<td>¼”, ½” &amp; 1”</td>
<td>½” - 1-½” &amp; ½”, 1”, 1-½”, 2”</td>
<td></td>
</tr>
<tr>
<td>Roll Width</td>
<td>60”</td>
<td>30” &amp; 60”</td>
<td>24” &amp; 48”</td>
</tr>
<tr>
<td>Roll Length</td>
<td>Various Lengths Available</td>
<td>Various Lengths Available</td>
<td>Various Lengths Available</td>
</tr>
<tr>
<td>Density</td>
<td>¼” - 8 lbs/cu.ft.</td>
<td>½” - 9 lbs/cu.ft.</td>
<td>1” - 10 lbs/cu.ft.</td>
</tr>
</tbody>
</table>

Thermal Conductivity (K-Factor)

BTU, in./ft², HR.°F

<table>
<thead>
<tr>
<th>Temp °F</th>
<th>E-Glass 6# Density</th>
<th>E-Glass 10# Density</th>
<th>Silica 10# Density</th>
<th>RG 2300 8# Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>0.292</td>
<td>0.350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>0.350</td>
<td>0.480</td>
<td></td>
<td></td>
</tr>
<tr>
<td>700</td>
<td>0.445</td>
<td>0.640</td>
<td></td>
<td>0.530</td>
</tr>
<tr>
<td>900</td>
<td>0.780</td>
<td>0.855</td>
<td>0.700</td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td>1.115</td>
<td>1.425</td>
<td>1.320</td>
<td>1.000</td>
</tr>
<tr>
<td>1500</td>
<td>1.820</td>
<td>1.820</td>
<td>1.780</td>
<td></td>
</tr>
<tr>
<td>1800</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
High Temperature Fabrics

Silicone Coated/Impregnated Fiberglass Fabrics
Silicone Coated/Impregnated Fiberglass Fabrics excel in High Temp. Applications. Silicone adds abrasion resistance and water proofing to the fabrics. These fabrics are good for making insulation jacketing. Max. continuous temp. to 500°F.

PTFE Coated/Laminated Fiberglass Fabrics
PTFE Coated fiberglass fabrics/films are very good high temp. hostile chemical-resistant fabrics. PTFE is inert against most acids and bases. Other PTFE laminates and film are available upon request. Continuous Temp. Max 550-600°F.

Texturized/Untexturized Fiberglass Fabrics
Type E Grade Fiberglass makes an ideal, cost-effective fabric for normal use to 1000°F. Bulk texturizing is very good to increase thickness for insulation applications. Vermiculite & HT Carmelizing available.

Lewco Silica Fabrics
High purity, non-respirable Silica Yarn is used to make a good, cost-effective fabric. A special vermiculite, weave-set coating is applied to help fabricators during the cut and sew process. Useful tensile strength to 1800°F. Melt Point: 3000°F.

Aluminized Fiberglass Fabrics
Aluminum Foil and Film laminated to Fiberglass Fabric creates an excellent vapor barrier against moisture or other fluids. Max. continuous temp. to 450°F.

Stainless Knitted Blanket Mesh & Foil
Blanket mesh should be a consideration in Removable/Reusable Insulation applications above 500°F. Blanket Mesh is a very flexible, circular knitted web made from a variety of grades of 0.008”, 0.0095”, 0.011” SS wire.

Acoustical Barriers
Lewco’s acoustical noise barriers are flexible, tough, high-density, vinyl films possessing high tensile and tear resistance. Those products must be positioned so to keep the temperature exposure below 180°F.
Sewing Threads and Drawcords

Lewco stocks a variety of high temperature, chemical-resistant Threads and Drawcords. Nomex®, Kevlar®, Fiberglass, Quartz and Stainless Steel Threads and Drawcords. Please contact Lewco for more information.

Starch Coated Fiberglass - Specially coated to meet NRC requirements.

Natural Kevlar®

Nomex®

Quartz®

Polyester/Inconel®

Kevlar®/10-Strand Stainless Steel

Kevlar®/5-Strand Stainless Steel

Kevlar®/3-Strand Stainless Steel

Tools

Hogrings and Tools

Lewco stocks the Spenax Pneumatic & hand-operated Hogring tools & Stainless and Galvanized staples. Lewco also offers a tool repair service for insulation customers. Please contact Lewco for more information.

Fastening, I.D.’s and Accessories

Lewco maintains a good inventory of Belting, Buckles, Lacing Anchors, Quilting Pins, ID Tags and other materials that help complete the fabricated system.

Threads

<table>
<thead>
<tr>
<th>Sewing Threads</th>
<th>Styles</th>
<th>Thickness</th>
<th>Brk. Strn.</th>
<th>Temp</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEFLON Coated Fiberglass</td>
<td>TCFT 18</td>
<td>.017&quot;</td>
<td>19 lb.</td>
<td>75°F</td>
<td>2500 yds/lb.</td>
</tr>
<tr>
<td></td>
<td>TCFT 18L</td>
<td>.017&quot;</td>
<td>19 lb.</td>
<td>75°F</td>
<td>2150 yds/lb.</td>
</tr>
<tr>
<td></td>
<td>TCFT 21</td>
<td>.021&quot;</td>
<td>27 lb.</td>
<td>75°F</td>
<td>1875 yds/lb.</td>
</tr>
<tr>
<td></td>
<td>TCFT 21L</td>
<td>.021&quot;</td>
<td>27 lb.</td>
<td>75°F</td>
<td>1612 yds/lb.</td>
</tr>
<tr>
<td>Starch Coated Fiberglass</td>
<td>B8</td>
<td>.020&quot;</td>
<td>31.3 lb.</td>
<td>750°F</td>
<td>1875 yds/lb.</td>
</tr>
<tr>
<td>Natural Kevlar®</td>
<td>T-90</td>
<td>.016&quot;</td>
<td>16 lb.</td>
<td>380°F</td>
<td>4704 yds/lb.</td>
</tr>
<tr>
<td>Nomex®</td>
<td>T-70</td>
<td>.014&quot;</td>
<td>4.5 lb.</td>
<td>480°F</td>
<td>6340 yds/lb.</td>
</tr>
<tr>
<td>Quartz®</td>
<td>Q-18</td>
<td>.017&quot;</td>
<td>24 lb.</td>
<td>1500°F</td>
<td>1950 yds/lb.</td>
</tr>
<tr>
<td>Polyester/Inconel®</td>
<td>PINC</td>
<td>.0145&quot;</td>
<td>8 lb.</td>
<td>1800°F</td>
<td>6500 yds/lb.</td>
</tr>
<tr>
<td>Kevlar®/10-Strand Stainless Steel</td>
<td>KSS 10-1</td>
<td>.012&quot;</td>
<td>23 lb.</td>
<td>1500°F</td>
<td>2,264 yds/lb.</td>
</tr>
<tr>
<td>Kevlar®/5-Strand Stainless Steel</td>
<td>KSS 5-1</td>
<td>.011&quot;</td>
<td>23 lb.</td>
<td>1500°F</td>
<td>3,456 yds/lb.</td>
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<tr>
<td>Kevlar®/3-Strand Stainless Steel</td>
<td>KSS 110</td>
<td>.011&quot;</td>
<td>27 lb.</td>
<td>1500°F</td>
<td>4,141 yds/lb.</td>
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Hogrings

<table>
<thead>
<tr>
<th>Hog Ring Part #</th>
<th>Hog Ring Tool</th>
<th>Quantity Per Box</th>
<th>Material</th>
<th>Diameter</th>
<th>Size</th>
<th>Diameter</th>
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</thead>
<tbody>
<tr>
<td>12SS100</td>
<td>SC761</td>
<td>10,000</td>
<td>304SS</td>
<td>.062&quot;</td>
<td>¼&quot;</td>
<td>¼&quot;</td>
</tr>
<tr>
<td>34SS110</td>
<td>SC743</td>
<td>11,000</td>
<td>304SS</td>
<td>.062&quot;</td>
<td>⅝&quot;</td>
<td>⅝&quot;</td>
</tr>
<tr>
<td>12SS125</td>
<td>P7</td>
<td>2,500</td>
<td>Galvanized</td>
<td>.062&quot;</td>
<td>⅝&quot;</td>
<td>⅝&quot;</td>
</tr>
<tr>
<td>34SS125</td>
<td>P7</td>
<td>2,500</td>
<td>304SS</td>
<td>.062&quot;</td>
<td>¼&quot;</td>
<td>¼&quot;</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Products</th>
<th>Styles</th>
<th>Sizes</th>
<th>Material</th>
<th>Put-Up</th>
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</thead>
<tbody>
<tr>
<td>Belting</td>
<td>1 &amp; 1-½&quot; Poly</td>
<td>1 &amp; 1-½&quot; x ½&quot; Poly</td>
<td>100 yd/roll</td>
<td></td>
</tr>
<tr>
<td>Buckles</td>
<td>1 &amp; ½&quot; D &amp; Rec.</td>
<td>.125&quot; x 1&quot; &amp; 1-½&quot; 304SS</td>
<td>Ea.</td>
<td></td>
</tr>
<tr>
<td>Velcro</td>
<td>800-1&quot;, 1-½&quot;, 2&quot;</td>
<td>1&quot;, 1-½&quot;, 2&quot; Nylon</td>
<td>50 yd/roll</td>
<td></td>
</tr>
<tr>
<td>Lacing</td>
<td>LASS &amp; LAMS</td>
<td>12ga. &amp; 14ga. 2-½&quot; &amp; 4-½&quot; 304 SS/Mild</td>
<td>1000/Box</td>
<td></td>
</tr>
<tr>
<td>Quilting Pins</td>
<td>QPSS &amp; QPMS</td>
<td>12ga. &amp; 14ga. 2-½&quot; &amp; 4-½&quot; 304 SS/Mild</td>
<td>1000/Box</td>
<td></td>
</tr>
<tr>
<td>Retaining Clips</td>
<td>K150SS &amp; K150G</td>
<td>12ga. &amp; 14ga. 304SS/Galvanized</td>
<td>1000/Box</td>
<td></td>
</tr>
<tr>
<td>Two-Hole Washers</td>
<td>THW</td>
<td>1&quot; 304SS</td>
<td>1000/Box</td>
<td></td>
</tr>
<tr>
<td>Tie Wire</td>
<td>1⁄16&quot; &amp; 0.47&quot;</td>
<td>304SS</td>
<td>5 lb. &amp; 25 lb.</td>
<td></td>
</tr>
<tr>
<td>I.D. Tags</td>
<td>1&quot; &amp; 3-½&quot;</td>
<td>304SS</td>
<td>Ea.</td>
<td></td>
</tr>
<tr>
<td>Grommets</td>
<td>Multiple available</td>
<td>304 SS</td>
<td>Ea.</td>
<td></td>
</tr>
<tr>
<td>Drawcord</td>
<td>TCFR</td>
<td>⅛&quot; Teflon CTD FG</td>
<td>650'/spl</td>
<td></td>
</tr>
<tr>
<td>Drawcord</td>
<td>SSD</td>
<td>⅛&quot; 304 SS</td>
<td>500'/spl</td>
<td></td>
</tr>
</tbody>
</table>
Cold Face Fabrics
1. Silicone Impregnated Fiberglass & Silica 500°F
2. PTFE/Teflon® Impregnated Fiberglass 550°F
3. Alum Foil/Film Laminated Fiberglass 450°F
4. Plain & Texturized Fiberglass 1,000°F
5. Stainless Steel Knitted Blanket Mesh 1,500-2,000°F

Hot Face Fabrics
1. Silicone Coated/Impregnated Fiberglass & Silica 500°F
2. PTFE/Teflon® Impregnated Fiberglass 550°F
3. Alum Foil/Film Laminated Fiberglass 750°F
4. Plain & Texturized Fiberglass 1,000°F
5. Vermiculite Coated Fiberglass 1,000°F
6. Vermiculite Coated Silica 1,800°F
7. 304 SS Foil 1,500°F
8. Inconel® Foil 2,000°F
9. 304 SS Blanket Mesh 1,500°F
10. Inconel Blanket Mesh 2,000°F

Blanket Insulation
1. Foams (Flexible, Closed Cell Elastometric) 300°F
2. Needled E Glass Blanket 1,200°F
3. Needled E Glass/Silica Composite Blanket 1,500°F
4. Needled Silica Blanket 1,800°F
5. Ceramic Fiber Blanket-RG 2,400°F
6. Ceramic Fiber Blanket-HTZ 2,700°F

Threads
1. Nomex® 400°F
2. Kevlar® 400°F
3. Plain Fiberglass 750°F
4. Teflon® Coated Fiberglass 1,500°F
5. Teflon® Coated Quartz 1,500°F
6. Stainless Steel 1,500°F
7. Inconel 2,000°F

Hogrings and Staples
1. Galvanized 1,000°F
2. Stainless Steel 1,500°F
3. Inconel® 2,000°F

Accessories
4. Lacing Hooks 8. SS I.D. Tags

Energy Audit
How much can you save using Removable / Reusable Insulation?
Calculate your losses at: http://www.insulation.org/

Fabrication Training
Lewco has 25 years experience making materials for Removable/Reusable insulation jackets. Please contact us for more information on our proven fabrication training system and training manual.
Lewco Style 07-025C Packing is braided from carbon fibers that have been impregnated with graphite. It is not suitable for strong acids, valve stems, rotary shafts, reciprocating equipment and other processing applications.

Lewco Style 07-029A can be used in a wide range of process chemicals and concentrations. It is braided of PTFE filament yarns and impregnated with PTFE dispersion. It is a firm high density braided packing. Lewco maintains large inventories of different sizes of Fiberglass & Nomex® lagging tapes. Applications include gasketing and freeze and personal protection.

Lewco Style 07-031 Packing is a homogeneous core of high temperature fibers and graphite with graphite lubrication. It is braided Inconel wire inserted carbon yarn over. Your One-Stop-Source for "High-Temperature" packing products.

Lewco Style 07-042B Packing is a high temperature valve packing. It is braided from carbon fibers that have been impregnated with graphite. Lewco Style 07-025C is an excellent choice for severe service in valve and pump applications.

We will strive to meet or exceed our Customers’ expectations. Lewco is committed to continually improving our products, services and the effectiveness of the Quality Management System to make our Customers totally satisfied.

We believe our products and services must be...

- **PRODUCED SAFELY**
  Our products and services are produced safely and in a safe work environment.

- **HIGH QUALITY**
  Our Service is courteous and professional. Our Products are manufactured under a Quality Management System certified as conforming to requirements defined in the ISO 9001:2000 Standard.

- **COMPETITIVE**
  Our products and services provide exceptional value for our Customers.

- **DELIVERED ON TIME**
  An inventory of finished products is maintained to meet our Customers’ delivery requirements.

- **CONTINUALLY IMPROVED**
  We will work together to continually improve all aspects of our business.

Corporate Headquarters / Manufacturing & Distribution Center
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