At Pyro Shield our fundamental goal is to provide our customers high quality, innovative, long lasting products that not only save energy and lower cost, but also ensure a safer work environment. For over a decade Pyro Shield has been dedicated to working with customers to produce custom products to fit a variety of needs and applications. By designing specialized products in the aluminum, steel, plastic, paper, power and welding industries, we continue to surpass customer expectations at every turn. Pyro Shield’s signature multi-layer weaving technique creates fabric with extraordinary strength, durability and unsurpassed heat and flame resistance, resulting in products that continuously out perform the competition and set new benchmarks for industry standards.

APPLICATIONS

- Heat Treating/Stress Relieving Blankets
- Fire Blankets
- Furnace Liners and Modules
- Welding Blankets & Curtains
- Flame Guards/Torch Guards
- Gaskets & Seals
- Ceramic Fiber Replacement
- High Temp Insulation Blanket & Board
- Silica Fabrics - Knitted, 3D Woven, Multi-Layered
- Fabricated, Exhaust, & Turbine Insulation
- Injection Molding Extrusion Heating Blankets
- Marine, Vessel & Ship Repair
- Heat And Sound Proofing Enclosures
- No Shot Insulation
- Rigid Board, Furnace Brick Solid Shapes
- Pre-Shrunk Products Per Design Use
- Insulation Wrap
**Insulation Mat** used to protect product are extremely important when working with extreme heat. At Pyro Shield we offer two different types of insulation blankets depending on which types of challenges your application presents.

**SNM**
Silica Needle Mat is the key material in the success of Pyro Shield. The SNM will outlast ceramic fiber up to (50) times in uses. The tensile strength of the SNM increases when heated and that is very important for the materials life. The SNM will not melt until 3000F. SNM will also handle compression and high pressure metal to metal contact with out cutting or crumbling. SNM is made from 36 inch wide max and can slit down to any width roll. The thickness ranges from 3mm, 6mm, 10mm, 12mm, 20mm and 25mm thick. The density is 10 pounds per cubic foot.

**ENM**
Fiberglass Needle Mat is a lower temp blanket that is used more for sound and thermal barriers. The temperature limit for this blanket is 1200F. ENM has excellent chemical resistance and high dielectric strength. The sound absorption is the superior to all insulation blanket types. The ENM blanket is made 60 inch wide and can be slit down to any width roll. The thickness is 12mm and 25mm. The density is 10 lbs per cubic foot.

**FABRICS**

We offer many types of fabrics that are made from 96% silica to a coated fiber glass. We use the temperature and material design to determine the type of fabric to use when fabricating any blanket or seal. Each blanket is custom made to specific application to ensure a quality seal throughout preventing heat and energy loss.

**Silica Fabrics -2000 F**
Plain and Satin weave silica fabrics of 18 oz, 36oz, and 42 oz per square yard. Knitted fabrics 6mm and 12mm

**Fiberglass Fabrics-1000 F**
Plain and satin weave uncoated light and heavy weight
SRC Fiberglass
Neoprene Coated Fiberglass
Aluminized Fiber Glass Fabrics
Pyro Shield serves almost all major industrial sectors. We specialize in high temperature solutions. We provide a safe and effective insulation product for the temperature and process required. We do not make or sell any hazardous products. All materials are made from non-respirable fiber and require no special respirators. We can design, build and supply complete insulation systems. Listed below is some insight with our areas of these markets.

**METALS & GLASS**

Pyro Shield provides a wide variety of parts and services to the metal and glass industry including annealing furnace parts, such as coil cover seals, furnace seal, and insulation modules with or without anchoring system. We also supply blast furnace trough covering, hose covering, and reusable blankets for temporary covering.

Our products are also currently being used in several Coke Plants for seals on coke batteries, to Battery doors and port hole sealing and gasketing. Casters are just one more of the applications where Pyro Shield products are commonly used, we carry Tundish covers and seals, Silica boards and ladle covers.

We also provide several products used in Aluminum plants such as: rolling mills preheat furnaces with no shot insulation required, furnace insulation, sealing, and gasketing. Carbon Baking Furnace port hole and manhole covers, ingot production trough covering, and sealing, scratch protection for heat treat racks, and heat protection pads for workers.

In addition to Pyro Shield products currently being used throughout the metal industry, we also provide several specialized services to the glass industry, such as no shot insulation for glass furnaces and ovens, along with seals and gaskets for furnace process valves and piping insulation.

**ENERGY**

Power plants make use of several Pyro Shield products such as: turbine and exhaust insulation blankets, pads, and gaskets, Pyro wrap for steam lines, valves, and flanges. We also provide welding and heat treating blankets, fire blankets and welding curtains for boiler repair, boiler door and port hole gasketing, and portable generator insulation systems. Our Hose covering for heat reduction is made to fit any size diameter.

Gas, oil, and chemical refineries are all extremely viable energy resources, however they also require extreme safety protection, and Pyro Shield delivers it. We provide flexible insulation wrap that will cover the process piping that may have been missed or rebuilt, welding blankets and PWHT blankets. Welding curtains and fire blanket (safety blankets) Vessel insulation that is weather proof and easily removed, along with fire stop walls and barriers.

Plastic Manufacturing:

Pyro shield can be seen throughout the Plastic Manufacturing industry. We make injection molding barrel insulation blankets that provide big energy savings. These blankets also provide protection from the hot barrel and work force. We had a study done by the utility company for a large injection molding company in NC. This provided real numbers after the blankets were installed. Dies and extrusion lines require insulation covers to prevent heat loss and provide uniform heating throughout.

We also service other manufacturing plants, paper mills, asphalt plants, cement plants and gas pipelines with the same energy reduction products.
HEAT TREATING, STRESS RELIEF 
AND WELDING PROTECTION

We provide reusable insulation pads for stress relieving of metals. This is done in 3 different types of heating.

Electrical resistance heating requires blankets that can handle 1800 F that will need to be fastened around the work piece and made to be reused. This replaces the ceramic fiber that is a 1 or 2 use material and a disposal problem. The welders, pipefitters, boilermakers, and maintenance workers prefer a safer and less irritating insulation.

Induction Flexible Heating creates a magnetic field and we provide insulation wraps, blankets and sleeving to protect from heat and welding splatter. The blankets are used to maintain temperature evenly and can be reused 50 times in some instances.

Combustion heating requires many different type of bulkheads or walls that have limited air flow through them. Bulkheads are made with SNM and metal supports. Vessel pads are used to insulate areas of a vessel or furnace that will be heated. They are normally large pads with connectors to tie them together for easy reuse of the pads on the next project.

INDUSTRIAL FURNACE INSULATION

We produce furnace modules, panel gaskets, and seals for many type furnaces. We also have silica blocks and boards for higher temp furnace duct work and exhaust systems. We use pre-shrunk SNM as a ceramic paper replacement. These items are a refractory replacement. We offer furnace panels for the construction of temporary furnaces around those projects where the application calls for this type of heating, whether it be a one time or one project disposable furnace.

FIRE PROTECTION AND TORCH GUARDS 
AND EMERGENCY BLANKETS

Pyro shield provides fire blankets that are packaged in an aluminum or plastic container that will post to any wall. They are used to prevent fires and can contain or help for escape. The standard size is 4ft x 4ft for the wall unit. We also make a smaller blanket that is designed for the plumber or refrigeration personal that is required to braze or sweat pipe together. We offer multiple sizes accommodating several different trades that use the torch guard. We also produce emergency blankets in any size and material, used for emergency or natural disasters.
Pyro Shield houses its own state of the art fabrication shop, producing products for any and every application that you may need. We understand that your needs might not always be of the standard variety, that’s were our fabrication shop comes into play, manufacturing any size seals, enclosures, and brick configurations you might have. We employ superior knowledge and industry expertise to handcraft our products to your specifications. Whether you are looking for special size anneal seals, insulation pads for those very odd and different shaped areas, or sizing up your special enclosures to ensure every part of your containers are completely sealed, Pyro Shield has you covered.

Certain pipe wrap situations often require custom fitting, we can produce wraps of any size and shape to fit your specifications, preventing any problems you may have been experiencing due to heat loss caused by poor insulation. Protecting valuable equipment such as modules and temperamental equipment from hot zones and fire hazards is an invaluable service that should be handled with the utmost attention. Pyro Shield is here to combat your problems with our proven solutions and expertise to protect your most valuable of products or services.
PRODUCTS

- **Welding Blankets & Curtains:** Our Welding Blankets & Curtains offer a unique combination of performance and affordability for both professional welders and hobbyists. Our blankets are made from high-grade silica fabrics & our curtains are made from fiberglass fabric with a rubber coating. Because of this there are no toxic fumes and the product is durable enough to withstand multiple uses.

- **Torch Guard & Fire Blankets:** designed for commercial, industrial and residential applications where protection from torch flame and heat is the top priority. Our Torch Guards are cut into sections of 1/8" thick silica fabric that protects wood or other flammable items in the brazing and cutting processes. Fire Blankets can extinguish flames at the early stages of a fire. These are made from many types of fabric and come in custom sizes.

- **Insulation Pads:** Specializing in fabricated insulation pads solving our customers needs, Pyro Shield’s design engineers create custom insulation pads to order, ensuring that the products you receive meet your exact needs and specifications. Built to any size and thickness sewed up with stainless steel high temperature thread.

- **High Temp Seals, Sleeving, Gaskets & Tubing:** We manufacture any size diameter, thickness seal. The flexibility of these seals allows for stuffing those distorted areas in the base. We offer warranties on these type of seal rings. Our sleeving can be cut to any diameter by any length, it is then hook and looped to fasten around pipe or hose. Gasket fabrics are constructed of needle mats sewed up with mesh and wire. Finally our Pyro tubing is a totally sewed tube of fabric available in different thickness, with multiple coatings.

- **Thermal Barriers And Enclosures:** This application our product is very flexible to use for areas that are hard to wrap or fit in to a space or container. Some applications include but are not limited to are valves, tee’s, flanges, elbows, and product enclosures such as encasing a generator or exhaust system that cause heat loss because of no insulation.

- **Furnace Modules And Bricks:** We make any size module that can be set or mounted in a furnace. These modules can be used for a pressure seal or a lining of a furnace. We install a one shot weld anchor in the module if it needs mounted. The Silica boards can be made up to 1” thick any size. We also carry higher density bricks for coke batteries and hot stove ovens.
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