



You Need The Best  
*To Be The Best*

# About Us

HiTemp has the innovation and determination you need, **to take your challenges from a problem, all the way to a solution!**

HiTemp Materials Corp. is dedicated to supplying durable, high-performance and flexible material solutions, for industrial applications. Our clients work with materials that are consistently undergoing extreme conditions where wear and tear are the standard and norm. Some examples of these challenges include: extreme heat, chemical attacks, repeated sticking, releasing and the necessity to exist and operate in harsh mechanical or abrasive environments.

We are proud to have many years of experience troubleshooting the challenging applications. We have the expertise to understand your applications and processes in house and we can bridge the gap with a better material solution. Fortunately, we are not defined by our own manufacturing limitations because in addition to our experience and tools, we have a broad array of national and international partners who possess the broadest technology bases.



HiTemp Materials Corp. dedicated to supplying  
**durable, high-performance and flexible material solutions**  
**for industrial applications.**

Thermal &  
Protective  
Insulation



Food  
Processing



Aerospace



Speciality  
Tapes



Flooring



Packaging  
& Plastics  
Processing





# Thermal & Protective Insulation

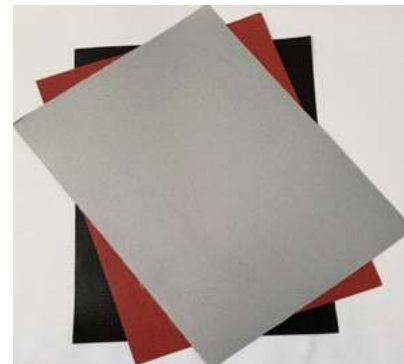
HiTemp Materials maintains a steady stock for our valued customers that boasts a wide variety of high temperature materials necessary to create removable insulation blankets and thermal insulation pads for pipes, refineries and petrochemical plants.

## Applications :

Welding Blankets  
Removable Insulation Covers  
Spray Sheets

Chemical processing demands materials able to withstand and function in the harshest hostile environments.

We offer the most diverse line of high temperature and chemically inert films, fabrics and flexible composites that allow you to produce, process and protect under extreme environments. We design and engineer material solutions that thrive in heated, chemically hostile, and mechanically challenging environments.



# Thermal & Protective Insulation

HiTemp's superior quality fabrics, threads & cords have proven itself in a wide array of applications & most extreme conditions.

**HiTherm Silicone Coated Fiberglass Fabrics**  
in 15oz, 17oz, 17.5oz, 32oz in variety of colors.

**HiTherm PTFE Coated Fiberglass Fabrics**  
in 16.5oz & 18oz.

**HiTherm Silica Cloth available in**  
18oz, 36oz

**HiTherm PTFE Coated Sewing Thread.**

**HiTherm Para-Aramid Cord 1/8".**

**HiTherm PTFE/Glass Cord 1/8"**

**HiTherm Hook & Loop Fasteners**  
available in 0.5", 1", 1.5", 2" width

## Technical Data – Thermal & Protective Insulation

Product No	Coating Medium	Color	Standard Roll	Weight(oz/yd2)	Warp	Weft	Temperature	Melting Point
TH-15SIL-GRAY-W	Silicone	Gray	60" x 50yards	15 ± 5%	500	385	-67°F to +500°F	1523 °F
TH-3100S-GRAY	Silicone	Gray	60" x 50yards	17 ± 5%	300	250	-67°F to +500°F	1523 °F
TH-17SIL-TAN	Silicone	Carlsbad Tan	60" x 50yards	17 ± 5%	355	275	-67°F to +500°F	1524 °F
TH-17SIL-GRAY-ST	Silicone	Gray	60" x 50yards	17 ± 5%	355	275	-67°F to +500°F	1525 °F
TH-8459-GRAY	Silicone	Gray	60" x 50yards	32 ± 5%	450	375	-67°F to +500°F	1526 °F
TH-FCF1650-GRAY	PTFE	Gray	60" x 50yards	16.5 ± 5%	410	350	-150°F to +600°F	1526 °F
TH-18TEF-GRAY	PTFE	Gray	60" x 50yards	18 ± 5%	410	350	-150°F to +600°F	1527 °F
TH-18SILICA	Vermiculite Coated Silica	Natural Tan	36" x 50yards	18 ± 5%	250	100	1800 °F	3000 °F
TH-36SILICA	Vermiculite Coated Silica	Natural Tan	36" x 50yards	36 ± 5%	200	100	1800 °F	3000 °F

# Food Processing

## Application

HiTemp offers custom belts fabricated with excellent quality premium food grade fabric, 100% toxic-free with long-lasting performance. The fabric is formulated to provide superior release properties, resistance to high temperature & abrasion, impermeable to vegetable and animal oils and greases.

Tortilla  
Pizza and Flat Bread  
Meat Searing & Grilling  
Cookware



Our products are used as conveyors in ovens, release press liners, cookware, etc processing anything and everything from dough to meat.





## Glimpse of Food Processing



- LAWRENCE EQUIPMENT
- JC FORD EQUIPMENT
- KV SYSTEMS
- CASA HERRERA
- AM MANUFACTURING

## Tortilla

HiTemp Materials Corp offers leadership in tortilla belt innovation. We have developed the most varied line of dip-coats and laminates, and fabricate PTFE belts with precision to last in your flour tortilla lines such as given below :



# Tortilla Belt

HiTef & HiLam Food Grade Belts  
Our HiTef and HiLam belting offers

Formulations with improved heat transfer.

Formulations with abrasion resistance,  
for excellent wear and tear durability.

Fabricated with precision for better tracking.

Tough reinforced seams to last in your ovens.

Minimized oil penetration and wicking,  
for longer lasting belts that preserve their  
mechanical strength while offering  
lasting release.

Precise color-coded tracking, metal  
tracking, or any tracking.

## Technical Data – Food Processing

Product No	Color	Max. Width	Weight(g/m2)	Thickness(Mil)	Warp (Lb/in)	Weft (Lb/in)	Temperature
FG-T-10PR-COPRED	Copper-Red	55"	500 ± 5	10	315	281	- 100°F To 500°F
FG-T-10PR-BROWN	Brown	55"	490 ± 5	10	270	259	- 100°F To 500°F
FG-T-HT10PR-RED	Red	55"	508 ± 5	10	350	250	- 100°F To 500°F
FG-T-HT10ST	Natural	55"	480 ± 5	10	225	175	- 100°F To 500°F
FG-T-LT10PR-AZUL	Light Blue	55"	475 ± 5	10	267.5	211.7	- 100°F To 500°F
FG-T-LT10PR-BLUE	Navy Blue	55"	477 ± 5	10	258.5	220	- 100°F To 500°F
FG-T-LT10PR-COPPER	Copper	55"	482 ± 5	10	267	218.5	- 100°F To 500°F
FG-T-FL10PR-RED	Auburn Red	55"	490 ± 5	10	275	205	- 100°F To 500°F
FG-C-12PR	Black	55"	720	12	188	229	- 100°F To 500°F
FG-C-14PR	Black	55"	720	14	400	354	- 100°F To 500°F



# Specialty Tapes

## Application

Vinyl Windows  
Heated Sealer Bars

Our range of performance tapes includes tapes with PTFE coated fiberglass, skived PTFE, high modulus PTFE, UHMW polyolefin and uncoated fiberglass. We utilize pressure sensitive silicone and acrylic adhesives that are engineered for strong adhesion and clean removal, requiring minimal or no residue.

Replaces deteriorated or burnt-out PTFE tape, which is a crucial barrier between the heating element and the bag. Old tape causes poor bag sealing and can lead to a broken heating element and a broken sealer.



HiTemp Materials offers a complete range of PTFE Adhesive Tapes to perform in a variety of heat seal packaging processes involving impulse heat sealers and hot bar sealers.

Several different grades are available at various PTFE coating weights to offer economic options or high performance solutions for smoother seals and increased durability.



# Aerospace



## Application

Vacuum bagging  
Wire & Cables



The aerospace industry relies heavily on high-performance fluoropolymers, which are used in a wide range of temperatures while maintaining performance, and can also offer chemical resistance when exposed to corrosive fuels. Fluoropolymers are widely used in the aerospace industry because they are much lighter than other aerospace building materials that offer agility, increased speed to the aircraft and reduce fuel consumption. HiTemp offers a variety of fluoropolymers like FEP, ETFE, ECTFE, PFA in varied thickness & roll lengths that provide excellent qualities like high-temperature use, chemical inertness, wear resistance and non-leaching properties.

Polyethylene (PE) is one of the most versatile and widely used thermoplastics in the world because of its excellent properties like toughness, near-zero moisture absorption, excellent chemical inertness, low coefficient of friction, ease of processing and unusual electrical properties.

Processing of polyethylene requires temperature resistance and release upon contact. Whether you are wrapping, sealing, or conveying in the packaging of your products, you will require flexible materials that can take the processing temperatures, and release upon contact. Our lines of HiTemp flexible composites are engineered to endure under this environment.

# Packaging & Plastic Processing

## Application

### Plastics T-Shirt Bags





# Flooring



## Application

Curing Oven Belts  
Heated Press Covers

The flooring market is at the forefront of material science innovation. Modern man-made materials have rapidly evolved to replace earth favorites such as wood and stone. Demand for lightweight, easy to install, scratch resistant, flood resistant and modern stylish high-end chic designs have required engineered composite flooring. To process this innovative flooring, high temperatures and chemical reactions are the norm

Our belts possess the following characteristics: Up to 200 inches wide, smooth or textured, abrasive resistant formulations, a range from 10 to 50 mil thick. Available with a seam & seamless construction that can be heat sealed on site. Up to 210 inches wide, varying size openings, in Glass and/or Kevlar, with a broad array of seams and edges.



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