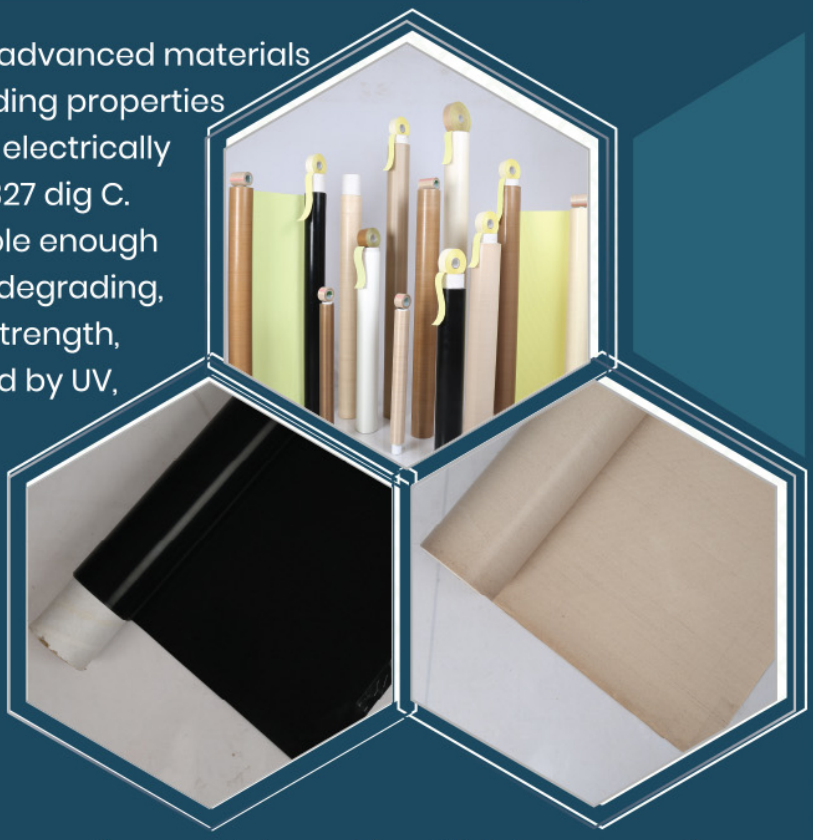
PTFE Coated Fiberglass Fabric

PTFE Coated Fiberglass is a composition of two advanced materials having remarkable properties. PTFE has astounding properties like highly flexible, Chemically Inert, Thermally & electrically resistant & non-stick having a melting Point of 327 dig C. PTFE is insoluble in all Common solvent, it is stable enough to be used in between -73°C to +260°C without degrading, It has low coefficient of friction, High Dielectric strength, Non Toxic, immune to fungus growth, unaffected by UV, IR & High frequency.



Glass Fiber too has extraordinary properties like high strength to weight ratio, Low elongation at break, High Tensile modulus, High Dielectric strength, High Temperature Resistance. Glass Fiber also have compatibility with organic matrix, it is Non-rotting, Non-Combustible, Inert & good chemical resistance.

Glass Fiber when impregnated with PTFE produces an immaculate matrix, which has properties of both advance materials.

Please note below some properties of PTFE Coated Fiberglass Fabric

- Non-stick surface
- Excellent temperature resistance: from -73°C to +260°C
- Chemically inert
- High tensile strength
- Very low coefficient of friction
- Non-toxic and compliant for food applications
- Strong resistance to all chemicals (except for molten alkaline metals and certain highly reactive fluorinated agents at elevated tempreture & pressure)
- Excellent dimensional stability and strong tensile strength due to glass fabrics
- High electrical insulating power, strong resistance to electric arc
- Insensitive to microwaves, UVs and IRs.

Product Ranges

Premium Grade Fabrics: PTFE Coated Fiberglass Fabrics have extremely smooth surface without any surface defect. Premium Grade has an extra Add on of PTFE on the Glass Fabric that makes it more durable and smooth finish. High quality glass fabrics combined with specially formulated high level of PTFE content produce super smooth, high-gloss surface coating. It has also good abrasion resistance and tensile strength. Applications may include laminate-release sheets, belting for food, electrical insulation and industrial processing. The product can be used in direct contact with food.

Products	GSM	Thickness		PTFE Content %	Tensile Strength		Temperature Resistance	Widths mm
		Mils	Mm		Warp Kg/2.54 CM	Weft Kg/2.54 CM		
6507-P	75	3 Mil	0.07	36%	30	20	260	1000mm &1200mm
6508-N	130	3 Mil	0.08	63%	30	18	260	1000mm &1200mm
6015-R	250	6 Mil	0.15	58%	44	44	260	1000mm
5615-N	280	6 Mil	0.15	60%	45	45	260	1000mm
6025-R	530	10 Mil	0.25	62%	86	78	260	1000mm;1500mm; 2000mm
6035-R	725	14 Mil	0.35	60%	110	85	260	1000mm;1500mm; 2000mm
6055-N	1150	22 Mil	0.55	62%	130	120	260	1000mm;1500mm; 2000mm
6070-W	1450	28 Mil	0.70	60%	100	112	260	1000mm;1500mm; 2000mm
6090-W	1700	36 Mil	0.90	58%	300	200	260	1000mm;1500mm; 2000mm

*These are all nominal values; Tolerance: +/- 5%

Standard Grade Fabrics: PTFE Coated Fiberglass Fabric with standard formulation and percentage of PTFE Content, provides a cost effective alternative to Premium Grade Series used for variety of industries and general purpose application, Still maintaining good heat transfer, release property & flexibility

Products	GSM	Thickness		PTFE Content %	Tensile Strength		Temperature Resistance	Widths mm
		Mils	Mm		Warp Kg/2.54 CM	Weft Kg/2.54 CM		
6508-N	120	3 Mil	0.07	60%	30	20	260	1000mm &1200mm
6013-R	255	5 Mil	0.125	57%	44	32	260	1000mm
5515-N	255	5 Mil	0.14	57%	50	50	260	1000mm
6023-R	475	10 Mil	0.23	57%	96	85	260	1000mm;1500mm; 2000mm
6033-R	625	14 Mil	0.33	52%	120	95	260	1000mm;1500mm; 2000mm
6655-R	1050	22 Mil	0.52	54%	140	130	260	1000mm;1500mm; 2000mm

*These are all nominal values; Tolerance: +/- 5%

Anti-Static Grade Fabrics: To Dissipate static charges developed during processing of dry products, glass fabric is coated by mixing Anti-static chemical with PTFE to make Anti-Static Grade PTFE Coated Fiberglass Fabric

Products	GSM	Thickness		PTFE Content %	Tensile Strength		Temperature Resistance	Widths mm
		Mils	Mm		Warp Kg/2.54 CM	Weft Kg/2.54 CM		
6015-B	260	5 Mil	0.125	58%	50	50	260	1000mm &1200mm
6025-B	515	10 Mil	0.25	60%	86	78	280	1000mm
6035-B	680	14 Mil	0.35	52%	90	80	260	1000mm
6040-B	780	16 Mil	0.40	58%	90	70	260	1000mm;1500mm; 2000mm

*These are all nominal values; Tolerance: +/- 5%

Applications

Abrasive

During the manufacture of GRINDING WHEELS our PTFE/Glass Fabrics are used as a separator in place of traditional Aluminum Plate. On account of Non-stick surface, less thickness and weight, more number of discs are able to cure at a time. Cost of PTFE/Glass is very nominal when compare with Aluminum sheet.

Aerospace

Designed to be 'breathable" without sacrificing the non-stick properties of PTFE, our Porous grade allows products to cure and outgas through the fabric. Porous bleeder material used as release fabric in Vacuum molding.

Conveyor Belts

PTFE/Glass fabric is engineered to make conveyor belts for various application in Food, Textiles & Garments, and UV & IR Curing systems, Extrusion, Packaging, Chemical and many more applications are being developed day by day.

Food Processing

PTFE/Glass Belts are used for transporting Quick frozen foods through freezing chambers and Bakery items i.e. Biscuits, Confectionery items, Tortilla Industry, Drying Fruits, Tray for Baking products etc.

Packaging

It is used for heat sealing applications like LDPE pouches, all kinds of dairy products. PE bags, Stationary and books packaging through Shrink Tunnels. Conveyor Belts on Acma-Wrap Machines for detergent and soap cake packing. PTFE/Glass 2Ply Belts are used in Continuous Sealers.

Photovoltaic/Solar

High gloss and very smooth surface PTFE fluoropolymer coated glass fabrics up to 2500 mm wide, This can be used as belting material during solar module lamination process. PTFE fabrics used as release products (sheets and belts) in the vacuum lamination process of rigid or flexible Photovoltaic modules.

PTFE COATED FIBERGLASS ONE SIDE ADHESIVE

PTFE Coated Fiberglass Fabric is coated with High temperature Pressure sensitive Silicone Adhesive on one side. This Product provide excellent release surface for various industrial applications that require high level of temperature resistance, Fire retardency, High Electrical Resistance & Good mechanical Strength.

These products are produced with Silicone or Acrylic Pressure Sensitive Adhesive systems. Silicone Adhesive coated PTFE/Glass Fabrics has an operating temperature range of -73 Deg C to + 260 Deg C, While the same fabric with Acrylic Adhesive coated products provide very high tack & operating temperature range upto + 170 Deg C

The PTFE Coated Fiberglass fabric with One Side Silicone Adhesive is covered with corrugated yellow PVC Liner on the adhesive side for preventing adhesive from degrading and easier usage, The One side Adhesive Fabric roll is then silted in various width as per customized requirement.

Products	Backing GSM	Thickness In mm		Adhesion Strength N/5 CM	PSA Type	Liner Type	Temperature Resistance Deg C	Widths mm
		Backing	Total					
3008-3R	120	0.07	0.125	22	Silicone	Yellow PVC	-73 to 260	1000mm
3008-N-3R	120	0.07	0.125	21	Silicone	No Liner	-73 to 260	1000mm
6015-6R	250	0.15	0.20	28	Silicone	Yellow PVC	-73 to 260	1000mm
5515-5R	255	0.14	0.19	25	Silicone	Yellow PVC	-73 to 260	1000mm
5615-6R	280	0.15	0.21	26	Silicone	Yellow PVC	-73 to 260	1000mm
6015-5B	230	0.15	0.19	28	Silicone	Yellow PVC	-73 to 260	1000mm
6025-10R	530	0.25	0.30	30	Silicone	Yellow PVC	-73 to 260	1000mm

*These are all nominal values; Tolerance: +/- 5%

Applications

- **Oil, Ghee, Milk Pouch Packaging:**
  Covering the heating element with adhesive side , Allowing heat to pass through, Thus sealing the PE/LDPE pouches dully filled with Oil, Ghee or Milk permanently & releasing the pouch by the other side of PTFE Coated Tape without any material sticking to the surface
- **Covering Drying Cylinders:**
  To prevent any sticking, lining up of trays in food product curing
- **Release Surface on Bonding Tools**
- **Ironing or Pressing Equipment**
- **uPVC Window Welding**

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PTFE Coated Fibarglass Conveyar Belts

Polytetrafluoro ethylene (PTFE) is a fluoropolymer having unique properties, Fiberglass is strong light weight material. Combination of both material, when Glass Fiber is coated with PTFE produces combined excellent properties

- **Remain Stable enough to be used between -73 deg C to 260 deg C**
- **Chemically Inert**
- **Non-Stick, Non-Toxic & Food Grade**
- **Un-affected by UV, IR & High Frequency**
- **High Tensile Strength with low elongation at break**

Shrinath is also the name of leadership in manufacturing of high performance process belts. Our industrial conveyor belts combine the excellent properties of these two extraordinary material, PTFE & Fiberglass.

Products	GSM	Thickness		Colour	Tensile Strength	
		Mil	Mm		Warp Kg/2.54CM	Weft Kg/2.54CM
6507-P	75	3 Mil	0.07	Brown	30	20
6508-N	130	3 Mil	0.08	Brown	30	18
6012-B	260	5 Mil	0.12	Black	50	50
5615-N	280	6 Mil	0.15	Brown	45	45
6025-R	530	10 Mil	0.25	Brown	100	85
6025-B	515	10 Mil	0.25	Black	86	78
6035-R	725	14 Mil	0.35	Brown	110	85
6035-B	680	14 Mil	0.35	Black	100	80
6040-B	780	16 Mil	0.40	Black	115	90
6055-N	1150	22 Mil	0.55	Brown	140	130
Leno 4 x 4 DWR	580	40 Mil	1.0	Brown	100	190
Leno 4 x 4 SWR	470	36 Mil	0.90	Brown	100	96
Leno 4 x 4 SWB	470	36 Mil	0.90	Black	85	80
Leno 2 x 3 SWR	500	30 Mil	0.78	Brown	125	100

*These are all nominal values; Tolerance: +/- 5%

We offer below different types of belt splice:-

- **Overlap splice:**

Belts end are cut straight or angularly at different angle overlapped to 25mm to 100 mm and heat sealed. It gives a very strong joint. Strength of joint is more than the basic fabric strength. This joint makes the belt endless.

- **Butt splice:**
  Both ends of the belts are cut straight or at different angles and butted together and the piece of PTFE / Glass Fabric of same or greater thickness is fused at the underside of the belt to get a smoother surface on top. Sometimes a piece of thin fabric is fused on the top side to protect the joint. This makes the belt endless

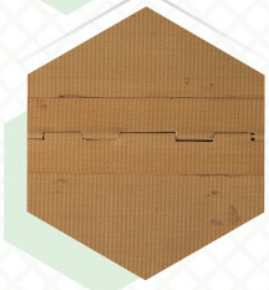
- **Two ply belt splice:**
  Two layer of PTFE/ Glass Cloth are laminated with staggered joint to achieve uniform thickness of the belt all over the belt length, to make a strong and endless belt.

- **Smart Loop (Bullnose):**
  A Leno Woven Fabric with braided thin Kevlar rope in fill direction which forms the loop, is used as a splice. This is stitched on both ends of Leno woven mesh belt and a mono peek pin is used to complete the joint. This Splice offers maximum airflow & flexibility at jointed portion. This makes the belt open ended.

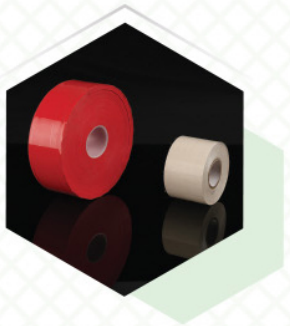
- **Metallic Alligator Splice:**
  This is a strong metallic splice where metallic alligator is fixed on both ends of the belt & connected by a metallic pin to complete the joint. This makes the belt open ended. Open end belts are required where it is difficult to dismantle the machine & install the belt.

- **Finger Splice:**
  In this splice, small fingers are cut by a template at both ends of the belt and fixed in the alternative grooves and a piece of PTFE Coated Fiberglass Fabric is heat sealed on the top & bottom side of the joint to make it endless. It is an improvised butt joint which provides flexibility to run belt even at the smaller diameter of rollers of machine.

- **Castellated Seal Splice (Fabric-Pin Splice):**
  Small dimension of fabric, heat sealed on both edges of the belt is cut alternatively to make hinges like fixing. A non-metallic pin is inserted to complete the joint. This belt is used where use of metal is undesirable.



Edge Reinforcement



Both edges of the belt need protection from tearing while running and coming in contact with metallic components. Skived PTFE Film or PTFE coated Fiberglass cloth is fused on both edges or stitched by 100% PTFE Thread.

Belt Tracking System

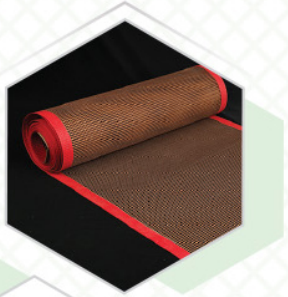
- **Guide button:**
  Made of SS or brass or PTFE studs are fixed on one side or both side of the belt at a fixed pitch and center distance width wise which run in the groove of the drive and driver roller to control the belt running straight on the machine. This is suitable for smaller width & shorter length belt.

- **Braided Kevlar Profile:**
  This is stitched at one edge of the belt which runs in the groove of the roller for keeping the belt in straight course.

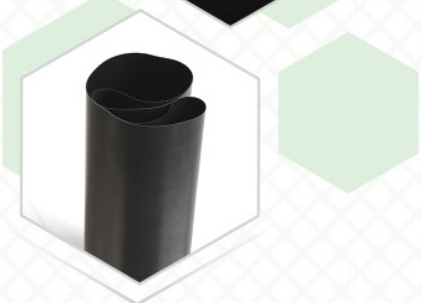
- **Belt Control by Limit Switch:**
  For larger size of belts limit switch mechanism with governing rollers are incorporated along with machine by the equipment supplier which controls the belt running smoothly on the chain.

We offer below types on conveyor belts

1. **PTFE Mesh Conveyor Belts**
   Our open mesh belts are used in screen printing to transport imprinted materials through drying ovens and cooling chambers. These belts are long lasting and perform well over a wide range of operating temperatures.



2. **Seamless Belts**
   Seamless belts for band sealer is available in single layer fabric which is woven, PTFE Coated and cut from a seamless fabric, Larger Size of seamless belt is also available as per dimension.

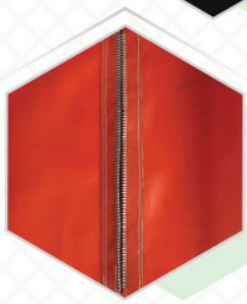


3. **2 Ply Belts**

2PLY belt is a laminated belt with two layer of PTFE Fabric, Basically used in band sealer application for LDPE pouch packaging for powder packaging.

4. **Silicone Rubber Belt:**

Silicone Rubber Belt for Shrink tunnel for packaging equipment for packing stationery & food products is available.



Application

- **Band Sealer Belts for LDPE pouch sealing in powder packaging**
- **Fusing machine belts for collar & cuff fusing machines**
- **Garment Curing Machine & Lamination Machine**
- **Dryer for rotary printing machine & flatbed printing machine**
- **Relaxed Dryer, Compacting machine & Curing Machines for knit processing**
- **UV Curing machines for printing industry**
- **Belt to use in magnetic separator**
- **To process food products like tortilla, Chapatti, Khakhra in baking chamber**

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FIBERGLASS FILTER MEDIA FOR DUST COLLECTION BAGS

Separation of solid particles from gases by a textile filter media at a very high temperature is an essential part of an industrial process, Contribute to the recovery of precious material & improvement in pollution control.

In a Fabric dust collector, dust laden gas is drawn through air permeable fabric, normally in the form of a tubular bag of different diameter & length where the gas passes through the fabric & the particles are retained. In this process the gas is filtered & clean gas comes out of dust collector/bag filter.

To meet the government environmental regulation the filtration efficiency of the media is very important.

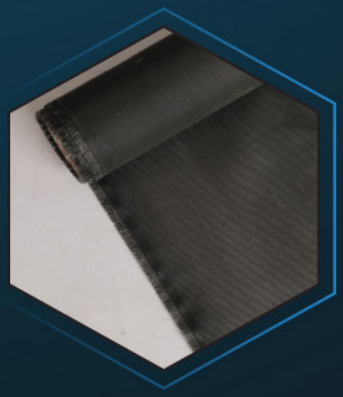
Our Woven Glass fiber filter media is designed with specific properties like yarn quality & count; Yarn Density; Weave pattern to achieve required parameter for optimum efficiency in filtration. at a temperature of 260° C on continuous rating.

Special chemical finishes are imparted to withstand severe chemical attack, Mechanical Stress & abrasion in extreme condition.

Types of Finishes

A) Finish Code: SGT Silicone; Graphite; PTFE Finish

A proportionate mixture of Silicone; Graphite & PTFE which protects media against abrasion; While it provides limited protection against chemical attack, This finish is recommended for Cement & Foundry Industries.

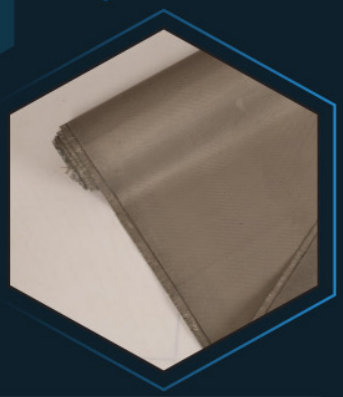


B) Finish Code: PTFE Finish

A ten percent add on of PTFE on the filter media, protects it from abrasion because PTFE encapsulates the glass filament. Recommended for utility based load boilers.

C) Finish Code: AR: Acid Resistant Finish

This is formulated of a mixture of Silicone; Graphite; PTFE & an Acid resistant polymer, This prevents Filter media against severe Acid & Chemical attacks while also reducing abrasion, Recommended for Industrial Boiler & Carbon Black.



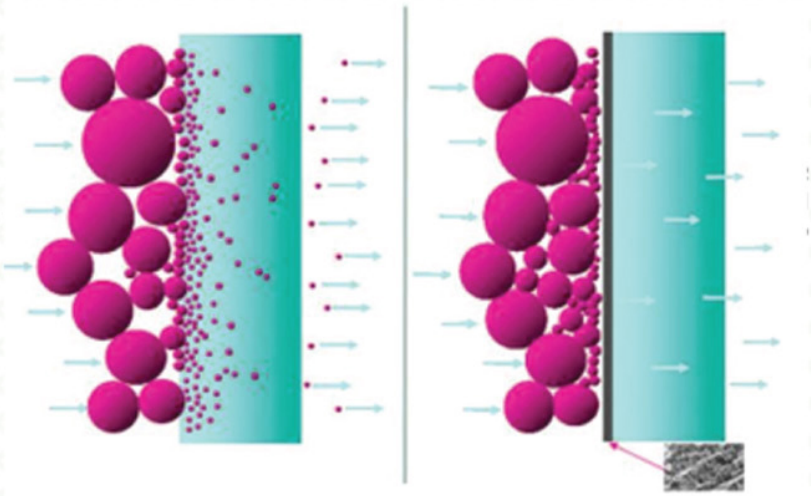
Expanded PTFE Membrane Laminated Fiberglass Fabrics

The main challenges faced by Fiberglass Filter media were short bag life due to acid attacks which corrodes the glass filament, Also as pollution norms became more & more stricter, ePTFE Membrane laminated Filter Media is the need of the hour.

ePTFE membrane filter media can bring about a wide range of benefits for your fabric Filter baghouse, the unique structure of our membrane prevents the penetration of fine dust particulates into the supporting substrate and facilitates excellent cleanability due to their non-stick Characteristics.

Depth Filtration Vs Surface Filtration

Depth Filtration
Particles Pentetrate the structure of the media and form a filter cake on the surface



Surface Filtration
Particles are collected on the surface of the membrane

ePTFE Membrane laminated filter media operates by utilizing surface filtration principles. The membrane on the filtering surface of the media prevents penetration of fine particles into the substrate. When cleaned, there is a near total removal of dust from its surface. It is this twin-action characteristic that enables ePTFE membrane laminated Filter Media to increase airflow without compromising baghouse DP. The permeability of media is maintained at all times and so DP is not only lower, but is kept constant throughout the life of the filter elements.

Below images display the effects of ePTFE Membrane laminated Fabric on the Baghouse

Filter Media Technical Data Sheet

Products	GSM	Weave Pattern	Finish Code	Loss on Ignition %	Thickness in mm	Air Permeability L/dm2/min @200 Pa	Tensile Strength		Mullen Burst Strength Kpa	Temperature		Available Widths mm
							Warp N/2.54 CM	Weft N/2.54 CM		Continuous deg C	Surge Deg C	
Fiberglass Filter Media for Reverse Air Baghouse Application												
ARF-350(1x3)RH	350	(1x3) RH Twill	AR	8%	0.34-0.37	250-400	930 +	980 +	>2950	260	290	1040mm; 2040mm
PTFE-350-(1X3) RH	350	(1x3) RH Twill	PTFE	8%	0.34-0.37	250-400	930 +	980 +	>2950	280	310	1040mm; 2040mm
SGT-450-(1x3)RH	450	(1x3) RH Twill	SGT	8%	0.40-0.45	250-400	1760 +	1175 +	>3950	260	290	980mm
SGT-520-(1X3)RH	520	(1x3) RH Twill	SGT	8%	0.45-0.50	250-400	1760 +	880 +	>2950	260	290	980mm
ePTFE Membrane Laminated Fiberglass Filter Media for Reverse Air Baghouse Application												
eARF-350-(1x3)RH	350	(1x3) RH Twill	ePTFE + ARF	>10%	0.34-0.36	19-35	930 +	980 +	>2950	260	290	2040mm
ePTFE-350-(1x3)RH	350	(1x3) RH Twill	ePTFE + PTFE	>10%	0.34-0.36	19-35	930 +	980 +	>2950	280	310	2040mm
Fiberglass Filter Media for Pulse Jet Baghouse Application												
SGT-600-DFT	600	Double Fill Twill	SGT	8%	0.50-0.60	250-400	1760 +	1760 +	>5400	260	290	1040mm; 1650mm
SGT-830-DFT	830	Double Fill Twill	SGT	8%	0.65-0.75	190-300	1760 +	2250+	>5400	260	290	1040mm; 1650mm
ARF-830-DFT	830	Double Fill Twill	AR	8%	0.65-0.75	190-300	1760 +	2250 +	>5400	260	290	1040mm; 1650mm
PTFE-830-DFT	830	Double Fill Twill	PTFE	8%	0.65-0.75	190-300	1760 +	2250 +	>5400	280	310	1040mm; 1650mm
ePTFE Membrane Laminated Fiberglass Filter Media for Pulse Jet Baghouse Application												
ePTFE-750-DFT	750	Double Fill Twill	ePTFE + ARF	>10%	0.65-0.75	19-35	1760 +	2250 +	>5400	280	310	1040mm; 1650mm
eARF-750-DFT	750	Double Fill Twill	ePTFE + PTFE	>10%	0.65-0.75	19-35	1760 +	2250 +	>5400	260	290	1040mm; 1650mm

*These are all nominal values; Tolerance: +/- 5%

Stitching Thread

Stiching thread is a most important member of the filter bag, It must withstand very high temperature, abrasion and should not give way during entire operation of Bag. We offer 100% Pure PTFE Stitching thread & PTFE Coated Fiberglass Stitching thread. 1250 Dernier & 1570 Dernier pure PTFE Thread are most commonly used and are ideal to withstand extreme conditions.

Applications

- Refineries
- Basic power generation
- Large utilities
- Asphalt production
- Carbon black production
- Incinerator
- Industrial boilers

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HIGH TEMPERATURE FABRICS FOR THERMAL & ACOUSTIC INSULATION

With the advent of more & more industrialization, new technology is evolved to protect/shield human beings & surrounding atmosphere from extreme condition. Lot of new products in fiber, fabrics & coating on fabrics are developed for thermal insulation and flame retardant which are environmental friendly and non-toxic. Glass fiber, Ceramic Fiber, Basalt fiber are inherently firepro of, We provide a wide range of technical fabric for insulation purpose like, Fiberglass Fabric; Graphite Coated Fiberglass Fabrics; Silicone Rubber Coated Fiberglass Fabrics; Vermiculite Coated Fiberglass Fabrics; Aluminum Foil Laminated Fiberglass Fabrics; Ceramic Fabrics. These products are designed to provide a complete one stop solution for all High Temperature Thermal & Acoustic Insulation Applications. Each of these products have different temperature resistance and properties, making each of them a very unique product suitable for a niche application.

Glass Fiber Fabric

Fiberglass Fabric made out of high quality E Glass Fiberglass have excellent properties like heat & flame resistant, Non-Corrosive, Continuous temperature rating upto 540 deg C. The main application for this include Expansion Joints, Pipe Lagging, Flange & Valve Covers, Safety Clothing, Hear Shields, Insulation Pads, Navy Board Facing fabrics, Welding Blankets, Insulation covers or shields.

Products	Glass Composition	Yarn Type		Thread Density		Weave Pattern	GSM	Thickness in Mils
		Warp	Fill	Warp	Fill			
FG110P	E Glass	75-1/0	75-1/0	20	20	Plain	110	5 Mil
FG430CFS	E Glass	75-1/2	75-1/2	48	32	4HS	430	13 Mil
FG205P	E Glass	75-1/0	75-1/0	42	32	Plain	205	7 Mil
FG610P	E Glass	1200 Tex	1200 Tex	6	6	Plain	610	17 Mil
FG840P	E Glass	37-1/2	37-1/2	44	32	Plain	840	32 Mil
FG1500P	E Glass	37-1/4	37-1/4	44	32	Plain	1500	60 Mil

**These are all nominal values; Tolerance: +/- 5%

Silicone Rubber Coated Fiberglass Fabric

Silicone rubber compounded in special formula is applied to coat or impregnate on one side or both sides of fiberglass fabrics, for use in applications which require heat resistance, spark safety, chemical resistance, or abrasion resistance. The operating temperature is from -50°C to +250°C normally. Due to its good performance on heat resistance, weatherproof, moisture proof, and chemical resistance to acid, alkali, and also good flexibility with abrasion resistance, our silicone coated fiberglass fabrics are fabricated and used directly for the following applications:

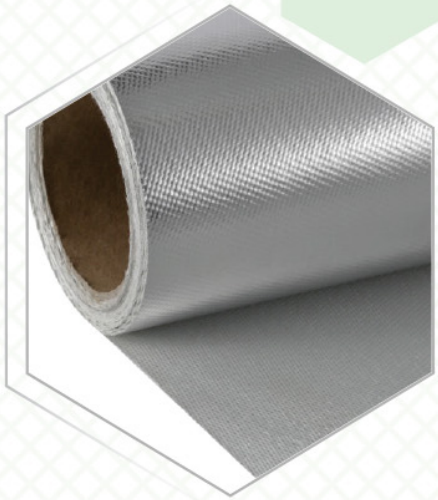
- Removable or reusable insulation jackets, mattress and pads; Fabric expansion joints and compensators;
- Fabric ductwork connector;
- Furnace curtains, welding curtains, welding blankets and fire blankets;
- Protective air cargo covers;
- Noise control barriers;
- Weather-proof or moisture-proof covers;
- Firefighting apparel

Product	Weight of base fabric	Coating Side	Coating Weight	Total Weight	Colour
SR430CFD	430	Single side	90	520	Red / silver grey / black
		Both sides	150	580	Red / silver grey / black
		Single side	70	500	Red / silver grey / white
		Both sides	130	560	Red / silver grey / white
SR840CFS	840	Single side	150	990	Red / silver grey
		Both sides	250	1090	Red / silver grey
		Single side	120	960	Red / silver grey
		Both sides	200	1040	Red / silver grey
SR1550CFS	1550	Both sides	400	1950	Red / silver grey
SR210P	210	Single side	100	310	Red / silver grey / black / white
SR600CFS	600	Both sides	200	410	Red / silver grey / black / white

*These are all nominal values; Tolerance: +/- 5%

Aluminum Foil Laminated Fiberglass Fabric

Aluminized Fiberglass Cloth Series is ideal thermal insulation material combining aluminum and fiberglass. The insulation material combines many types of fiberglass, Kevlar, flame-retardant cotton, aluminosilicate ceramic cloth, silicone rubber coated fiberglass fabric and other component materials. It can be used for piping protection, engine components, construction materials, and other uses. The excellent thermal insulation materials are great for steam heating pipelines, sound-proof materials in construction and provide a protective layer for glass wool blankets. They offer fire-resistance, anticorrosion, heat insulation, and sound absorbency. For packing materials they offer moisture resistance, mildew proof properties, fire-resistance, and anticorrosive properties.



Products	Thickness In mm	Tensile Strength N/5 CM		Thread Density		Weave Pattern	Foil Thickness In micron	GSM	Width In mm
		Warp	Fill	Warp	Fill				
ALFG110	0.10	820	800	30	30	Plain	7; 18; 25	110	1000;1200
ALFG205	0.20	2025	1620	44	32	Plain	7; 18; 25	200	1000;1200;1500
ALFG430	0.43	6000	4500	48	32	Satin	7; 18; 25	205	1000;1200;1500
ALFG600	0.55	6000	5500	20	14	Plain	18; 25	610	1000;1200;1500
ALFG840	0.90	8000	6000	46	35	Satin	7; 18; 25	840	1000;1200;1500
ALFG1120	1.50	8000	7500	16	8	Plain	7; 18; 25	1120	1000;1200;1500

Below are our product range for Aluminum Foil Laminated Fiberglass Fabric

Vermiculite Coated Fiberglass Fabrics

Vermiculite Coated Fiberglass Fabrics are woven from high strength continuous filament fiberglass yarn and treated with a proprietary vermiculite coating. The high temperature coating causes heat to disperse evenly across the surface of the fiberglass fabric, significantly boosting its resistance to high temperatures and abrasion.

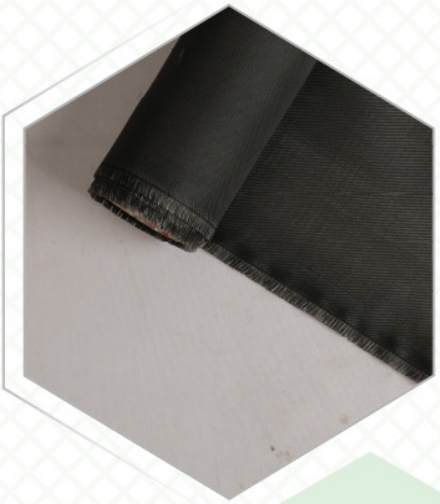
Shrinath's proprietary vermiculite coating has larger platelets and a greater percentage of solids than competitive coatings allowing for better coverage and superior heat dispersion. Our coating also features an organic adhesion promoter to improve the bond between the platelets and the fiberglass fabric to reduce flaking, improve moisture resistance, and ensure a longer product life. Vermiculite Coated Fiberglass Fabrics withstand constant operating temperatures up to 815°C and peak temperatures up to 1095°C.

Applications

- High Temperature Gloves
- Insulation Blankets
- Welding Blankets and Welding Pads
- High Temperature Lagging
- High Temperature Curtains

Graphite Coated Fiberglass Fabric

Graphite coated glass cloth is constructed with a glass fibre fabric which is coated on both sides with a graphite solution. The graphite coating will increase the fabric's resistance to temperature and abrasion and can improve performance where flexing is required. It is commonly used in the manufacture of welding curtains/covers, heat shields, sleeves, connectors and insulation jackets. Graphite coated fiberglass fabric are treated with a Graphite & Silicone impregnation. A specially formulated, non shedding, lubricating graphite finish that improves resistance to both temperature and abrasion.

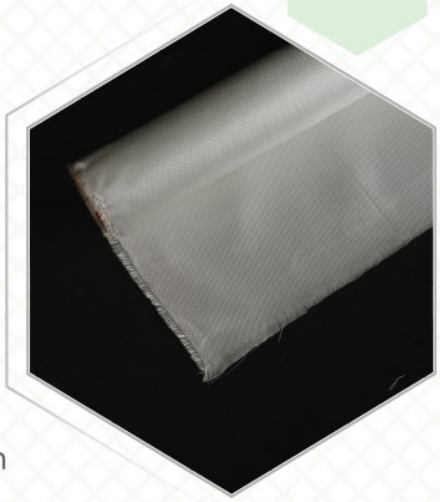


Applications

- Welding spark protection blankets / curtains,
- Insulation Pads for Fire protection,
- insulation mattress / jacket cover material,
- High temperature fabric seals.
- Automotive Insulation
- Aerospace & Marine

Silica Fabrics

Silica materials are a superb high temperature insulation and can be used for a long time without changing of properties at the temperature higher than 1000 deg C for a short period of time.



We manufactures a wide range of silica fabrics with the weight from 120 to 1400 Gram/SQM with different types of finish improving their properties. One of the considerable sectors of silica fabric application — production of welding blankets, fire protective blankets, screens and curtains, casing as a thermal barrier for protection of the equipment, high temperature insulation of furnaces, turbines, screens for protection from molten metal splashes, sparks, thermal insulation.

Applications

- As a means of high temperature insulation at up to 1200 deg C,
- Thermal protection for different industries,
- For refractory base, gaskets and blankets,
- Protecting from flame, splashes of molten metal,
- Excessive heat, as a filler for composite materials,
- For the production of thermal insulation mats with basalt

Ceramic Fabrics

Ceramic Fabrics are made from an alumino-silicate based refractory fiber. This ceramic fabric is suitable for the most extreme high temperature environments due to its low thermal conductivity and good resistance to corrosive chemicals. Because ceramic fabric with stands temperatures up to 1260°C, they are commonly used as high temperature insulation or lining in and around furnaces, boilers, and kilns.

Applications

- Welding spark protection blankets / curtains,
- Insulation Pads for Fire protection,
- insulation mattress / jacket cover material,
- High temperature fabric seals.
- Automotive Insulation
- Aerospace & Marine

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ADVANCED COMPOSITE MATERIALS

Advanced composite material are mainly manufactured from fiberglass, Para Aramid & Carbon, because of there high performance properties.

Fiberglass is nonflammable, Non-Toxic & rigid. Tensile strength to weight ratio is very high, para-aramid is having a high impact strength, and Carbon produces high stiffness with low weight.

The special properties of each fibers are considered for development of re-inforced fabric, with different resin system.

We produce Fiberglass & Carbon fiber fabrics & Hybrid fabric of different fibers, with different coupling agent, Suitable for customer's required resin system.

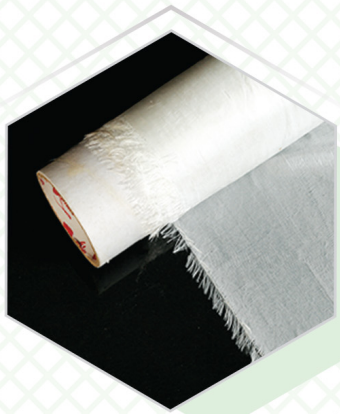
We are well equipped with dryer where fabric can be pre-pegged if customer needs

Glass Fiber Fabric

Product Style	Glass Composition	Yarn Type		Thread Density PER 2.54 CM		Weave Pattern	GSM	Thickness in Mils
		Warp	Fill	Warp	Fill			
120	E Glass	450-1/2	450-1/2	60	58	4HS	110	4 Mil
1581	E Glass	150-1/2	150 -1/2	56	54	8HS	300	9 Mil
3732	E Glass	75-1/2	75-1/2	48	32	4HS	430	13 Mil
7628	E Glass	75-1/0	75-1/0	42	32	Plain	202	7 Mil
2116	E Glass	225-1/0	225-1/0	60	58	Plain	105	3.5 Mil
1080	E Glass	900-1/2	900-1/2	60	48	Plain	50	2 Mil
7645	E Glass	75-1/2	75 -1/2	48	32	8HS	430	13 Mil
10MILFG	E Glass	75-1/2	75-1/2	26	20	Plain	250	10 Mil

*These are all nominal values; Tolerance: +/- 5%

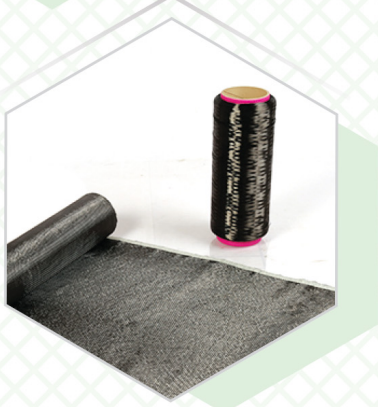
Glass fabrics are treated with different finishes to make it compatible with various resin systems like Epoxy, Polyimide, Phenolic, and Polyester & Vinyl Resin.



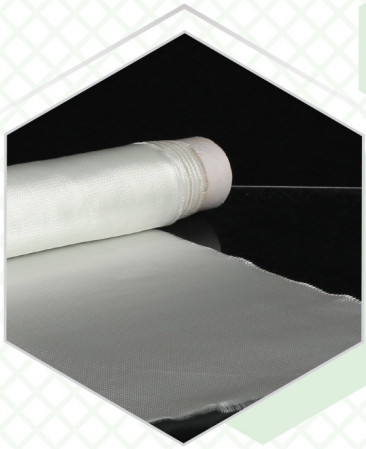
Carbon Fiber Fabric

Product	Precursor	Yarn Type		Thread Density PER 2.54 CM		Weave Pattern	GSM
		Warp	Fill	Warp	Fill		
3K220CS	PAN	3K	3K	14	14	4HS	220
3K3808HS	PAN	3K	3K	24	24	8HS	380
12K6502X2	PAN	12K	12K	10	10	2X2 Twill	650

*These are all nominal values; Tolerance: +/- 5%



Woven Rovings



E-Glass Woven Rovings are bidirectional fabric made by interweaving direct rovings. Warp and weft rovings aligned in a parallel and flat manner, resulting in uniform tension, densely aligned fibers, resulting in high dimensional stability and making handling easy. E-Glass Woven Rovings are a high-performance reinforcement Material, widely used in hand lay up and robot processes to manufacture boats, vessels, plane and automotive-parts, furniture and sports facilities.

Our Woven Rovings have excellent properties like complete and fast wet-out, Easy handling, Good mechanical properties, Good moldability, High productivity, High strength of parts, Uniform tension.

Resin Compatibility: Epoxy, Phenolic, Polyester & Vinyl

Product Style	Glass Composition	Yarn Type		Thread Density PER 2.54 CM		Weave Pattern	GSM
		Warp	Fill	Warp	Fill		
WR260	E Glass	200 Tex	200 Tex	16	17	Plain	260
WR360	E Glass	300 Tex	300 Tex	16	14	Plain	360
WR610	E Glass	1200 Tex	1200 Tex	6	6	Plain	610
UD600	E Glass	600 Tex	20 Tex Polyester/Glass	24	8	UD	600
UD390	E Glass	600 Tex	20 Tex Polyester/Glass	16	8	UD	390

*These are all nominal values; Tolerance: +/- 5%

Applications:

- Aircraft Interior
- Rotor Blades
- Recreational
- Radomes
- Brake Lining
- Transportation / Automotive
- Tooling
- Protection

Release Cloth for Mould Release Application

A composition of PTFE & Fiberglass Fabric made out of style 1080 having a good air permeability without sacrificing, Its Release property is used for mould release for all composite materials.

Woven Fiberglass Tapes

We weave woven fiber glass tape of various widths to be used in manufacturing of chemical tanks & piping.

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PRESSURE SENSITIVE ADHESIVE TAPE

Pressure sensitive adhesive tape can be defined as a continuous flexible strip of cloth, paper, metal, plastic or foam coated on one or both sides with a permanently tacky adhesive at room Temperature which will adhere to a variety of surfaces with light pressure (finger pressure) with No phase change (liquid to solid) and usually in roll form.

Shrinath Adhesive Products Pvt Ltd. Is a manufacturer of industrial pressure sensitive adhesive tapes in Ahmedabad. We manufacture PSA tape for wide range of Industries like Printing & Packaging, Electrical Insulation, Thermal Insulation, Aviation, Defence, Automotive Industry & other industrial applications

Shrinath has a world class manufacturing facilities a horizontal coating plant made as per international standards possessing Lenze AC Drives for complete tension, temperature for quality control. The plant is 60 feet long for complete curing solution with coating speed ranging from 2 Mtr/min to 30 Mtr/min The plant incorporates all sorts of coating technologies such as three roll coating, Roll Over Coating, Mayer bar coating, Knife on air coating, etc. Also possessing Gravure station and Lamination station for precision coating solution and Hot air curing technology for safety against flammable solvents

We manufacture the adhesive tape in three below mentioned adhesive types, each adhesive has their unique properties, Resulting in extraordinary properties of PSA Tape suitable for there application

1) Natural Rubber Based Adhesive: These adhesive are known for high level of adhesion to a variety of substrate, as well as high coatablity, Rubber Based adhesive provides high tack and peel and makes an excellent general purpose adhesive because of their ability to adhere well to several non-polar, low energy surfaces. In general rubber-based adhesive are a more economical option compared to acrylics

2) Acrylic Based Adhesive: These adhesive provide excellent temperature, UV & oxidization resistance, therefore they are often preferred choice for outdoor application, They are very durable and have good clarity & colour stability, Acrylic also bond well to polar surfaces like Glass, Polyester, Metal, Polycarbonates and have a high tack, peel & shear strength.

3) Silicone Based Adhesive: These specialized adhesive consist of silicone polymer that provides adhesion to silicone and other hard material to adhere, Silicone based adhesive can maintain adhesion over a range of temperature, With its maximum temperature resistance upto 260 Deg C. However beyond their ability to adhere to difficult surfaces, there overall adhesive strength is low

Below are the our range of pressure sensitive adhesive tapes

Products	Description	Thickness In mm		Adhesion Strength N/CM	Elongation %	PSA Type	Heat Class	Temperature Resistance Deg C	Standard Length
		Backing	Total						
S9014-DSCT	Double Sided Cloth Tape	0.20	0.28	2.0	8	Natural Rubber	E	0 to 120	25 Meter
S9011-WP	W/P Cotton Cloth Tape	0.20	0.20	1.5	8	Natural Rubber	E	0 to 120	50 Meter
S3011-FGF	Fiberglass F Class Adhesive Tape	0.12	0.175	3	10	Synthetic Resin (ts)	F	0 to 155	25 Meter
S4014-FGH	Fiberglass H Class Adhesive Tape	0.12	0.18	2.5	10	Silicone	H	0 to 180	25 Meter
S4015-FGAL	Fiberglass AL Foil H Class Adhesive Tape	0.14	0.20	2.5	10	Silicone	H	0 to 180	25 Meter
SAL-5010	Aluminum Foil Tape	0.075	0.09	4	5	Synthetic Resin (ts)	F	0 to 155	25 Meter
S-4011	Polyimide Adhesive Tape	0.05	0.09	2.2	70	Synthetic Resin (ts)	F	0 to 155	25 Meter
S-2010	Polyester Adhesive Tape	0.05	0.08	3	80	Natural Rubber	E	0 to 120	50 Meter

*These are all nominal values; Tolerance: +/- 5%

Apart from these standard pressure sensitive adhesive tapes, we at Shrinath have capabilities to develop any tape with different type of backing of fabric, foil, plastic, Rubber or any other with any adhesive system like Natural Rubber, Synthetic Resin or Silicone

Application

- Power Plant
- DG Sets
- Transformer
- Refineries & Petrochemicals
- Metals & Alloys
- Glass & Ceramic
- Plastic & Rubber
- Packaging & Printing
- Aviation
- Automotive Industry
- Defence & Aerospace
- Infrastructure

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