



Textrov[®]

DryFILT

**FILTRATION FABRICS
WOVEN FIBRE GLASS**



SAVING ENVIRONMENT, ENERGY AND LIFE...

ABOUT

Leading manufacturer of high-performance TECHNICAL TEXTILES and engineering products including filtration, safety and other high temperature industrial applications.

Founded by a group of industrialists, who brought together their prevailing expertise in glass and PTFE, the unit was established in 2015. It soon rose as an elite materials company with all types of fibre glass bases media and later with other kinds of substrates, developed a wide range of coating solutions and lamination using advance technology and formulations.

Supertech Fabrics Pvt. Ltd. with the support of its customers and suppliers, Has grown in a solution oriented manufacturing, bringing advantages of in house manufacturing, and to end media control, and a robust quality control plan. With a sound technical competence and a vision that drives us, we aspire to set new industry benchmark in the years to come.



Group with a Diverse Exposure and Strong Industry Base



End to End Performance Control of the Product



Driven by Technocrats



Highly Effective Quality Assurance Plan

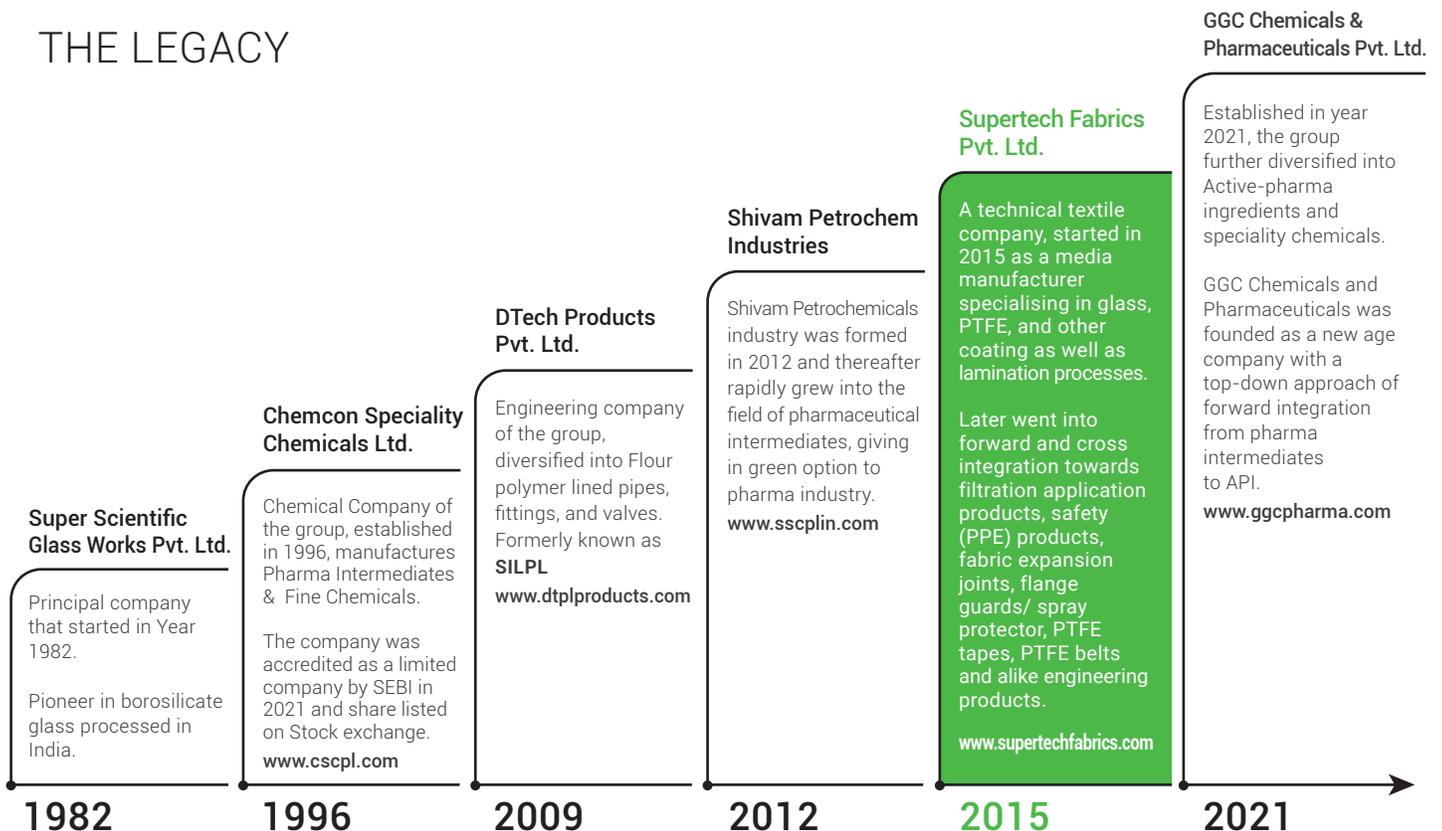


Culture of Excellence



Solution Oriented Approach

THE LEGACY





DryFILT



MAKING FIBRE GLASS FILTRATION MEDIA ACCESSIBLE AND AVAILABLE FOR LOW EMISSIONS

Premium E-glass woven fabric for high quality emission control.

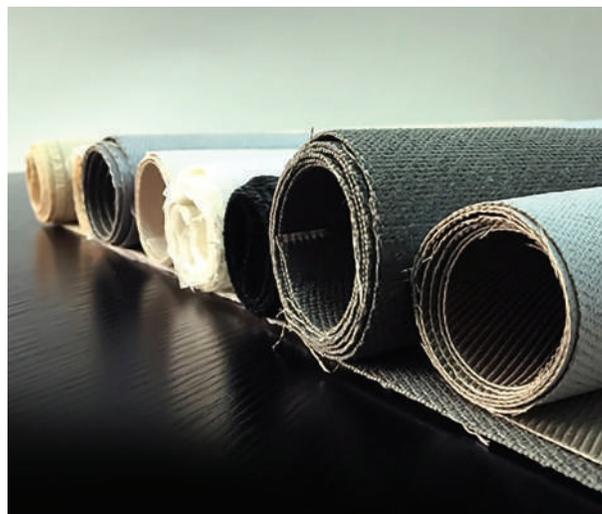
- **Inorganic fibre: very low dependency on fossil fuel economy**
- **Long life cycle: high sustainability**
- **Low emission in range of 10 mg / cu.m.**
(Depends upon dust particle composition of the system)

Sold in rolls

Width: 1830 mm | 72 inch
1650 mm | 65 inch
1560 mm | 62 inch

Length: 100 m | 328 feet

Media developed and tested as per **ASTM D737**.
USEPA ETV testing in progress.



APPLICATION FIELD

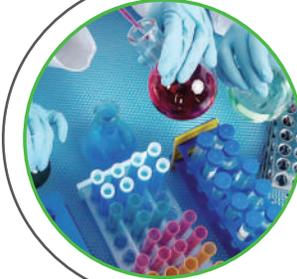
High Temperature De Dusting



Industrial Boilers



Chemical & Pharmaceutical Industry



Cement Industry

METAL



Ferro Alloys

- Dust To be handled: Molten metal dust
- Nature of dust: Very fine, free-flowing, mildly abrasive
- Cleaning Mode: Offline or Online
- Design Gas temperature: 260 °C
- Design Surge Temperature: 280 °C
- Dust Load: 1-10 g/m³
- Baghouse Design: Reverse Air Bag House (RABH) or Pulse Jet (PJ)

Usage

- In a reverse air baghouse - 340 gsm AR Fiberglass with Membrane
- In a pulse jet baghouse - 750 GSM Fiberglass with Membrane
- When the gases are cooled to below 135 °C, in that case, cheaper polyester felt filter bags can be used - Polyester Felt
- To reduce the emissions below 30 mg/m³, membrane laminated filter bags are required - Polyester with Membrane

Steel Mills

- Nature of dust: Fine, free-flowing, mildly abrasive
- Cleaning Mode: Offline or Online

Usage

- For Reverse Air Baghouses (RABH) at steel plants. Long life and reduced emissions can be expected - 340 gsm AR Fiberglass with Membrane
- For Pulse Jet baghouses with higher temperatures and desire to reduce emission and increase bag life - 750 GSM Fiberglass with Membrane
- Used in multiple dust collectors. If the temperature is <135 °C, Polyester is the preferred filter media - Polyester Felt

Aluminium

Main applications are:

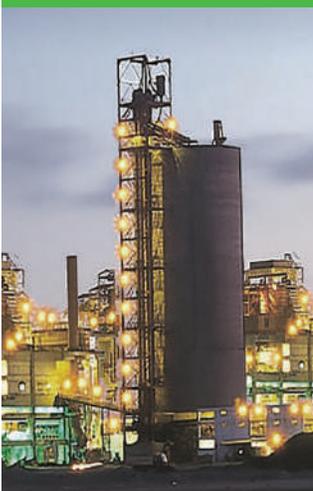
1. Main Pot Room Baghouse (GTC)
2. Carbon Anode Plant Bag Filters

- Nature of dust: Fine, free-flowing, mildly abrasive
- Cleaning Mode: Offline or Online
- Design Gas temperature: 135 °C
- Design Surge Temperature: 150 °C

Usage

- The quantity of alumina to be filtered is high and these bags get heavy hence the felt must have good mechanical resistance. Also, the temperature and humidity conditions generally let polyester fabric be used successfully - Polyester Felt
- High moisture and temperature combination - Acrylic Homopolymer Felt

CEMENT



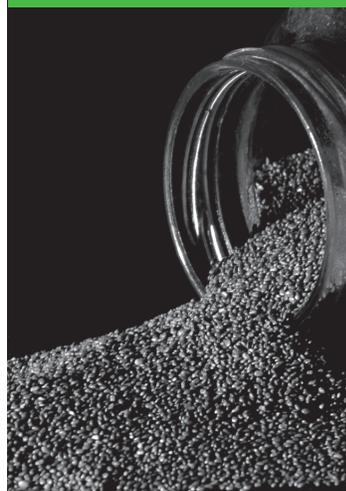
Kiln/Raw Mills

- Dust Handled: Kiln/raw mill gases
- Nature of dust: Fine, free-flowing, mildly abrasive
- Typical Gas temperature: 90-240 °C
- Typical Surge Temperature: 260 °C
- Dust Load: 30-80 g/Nm³

Usage

- For Reverse Air Baghouses (RABH) applications - 340 gsm AR Fiberglass with Membrane
- For Pulse Jet baghouses with temperature up to 260 °C - 750 GSM Fiberglass with Membrane
- For Pulse Jet baghouses with temperature up to 240 °C - Polyimide (P84®) Felt

CARBON BLACK



Carbon Black

Main Bag Filter

Type of Filters: Pulse Jet & Reverse Air
Design Temperature: 230 ~ 260°C
Issues

- Premature failure resulting in expensive downtime
- High Pressure Drop
- Failure due to chemical attack and temperature excursion

Usage

- The use of membrane bags is a proven means of increasing bag life and reducing premature bag failures at the same time allowing for increased production rates.
- If the temperature is below 260 °C and increased productivity and lower emissions are desired compared to non-membrane bags - 750gsm AR Fiberglass with membrane.

CONTROLLING CRITICAL EMISSION LEVELS

Industrial emissions are a heavy mix of air and particulate matter that are both physically abrasive and chemically corrosive. The air itself can be from 50 to 350 degrees. This poses a serious threat to environment and any human in contact of it.

Clean air systems are designed to provide effective filtration for such particulate matter so that air can be safely released. Thus, it becomes a vital part of an industry operations and requires high dependability.

The problem is that for system to work effectively, a certain understanding is required of its working and to make right choices along the stages. Failure to do so results in either industry operations being disturbed all the time, or very high running cost of the entire system.

INCINERATORS



MSW Incinerators

- Dust Handled: Ash handling/Waste Handling
- Gas Handled: High-temperature, and Corrosive
- Nature of dust: Abrasive, free-flowing, High Temperature
- Design Temperature: 240 °C
- Surge Temperature: 260 °C
- Dust Load: 500-600 gm/Nm³
- Cleaning Mode: online

Usage

- When the gas is not corrosive and you are able to get >2 years bag life from fiberglass itself.
- Switch to PTFE felt if fiberglass bags are giving poor life due to chemical attack. Add membrane if dust is fine and need <30 mg emissions

CHEMICALS



Pharmaceuticals

Dryer Filter

Type of Filter: Pulse Jet
Design Temperature: 190 ~ 260°C

Issues

- High moisture and acidic gases
- Oil exposure to the filter surface
- Failure due to chemical attack and temperature excursion

Usage

- Downtime can be reduced and filter life can be increased by using 100% PTFE Felt bags in the dryer baghouse where the common operational issues are moisture, acid attack, and higher temperatures excursions

COMMON PROBLEMS

- Non-performance of the Filtration Output
- Low Life Cycle of Bags and other Parts
- Premature Failure of Bags
- Fluctuating Differential Pressure in the Bag House
- Improper Installation and Commissioning

FILTRATION IS A 4 STEP PROCESS TO GET EFFECTIVE, EFFICIENT AND CONSISTENT EMISSION CONTROL WITH A GOOD LIFE CYCLE SPAN.

- 1 ASSESSING BAG HOUSE CONDITION AND FLUE ANALYSIS
- 2 SELECTION OF THE RIGHT MEDIA
- 3 QUALITY OF PRODUCT AND FITMENT SERVICES
- 4 MAINTAINING BAG HOUSE PARAMETERS AND PERIODIC SERVICING



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For Pulse Jet Bag House Application

	STF-W-FG-750G	STF-W-FG-750A	STF-W-FG-750MY
Weave Pattern	Double Twill	Double Twill	Double Twill
Construction (Warp/ Weft)	48.0 ± 2.0 / inch (9 µm)	48.0 ± 2.0 / inch (9 µm)	48.0 ± 2.0 / inch (6 µm)
	40.0 ± 2.0 / inch (9 µm)	40.0 ± 2.0 / inch (6 µm)	40.0 ± 2.0 / inch (6 µm)
Thickness	0.9 mm ± 0.1	0.9 mm ± 0.1	0.9 mm ± 0.1
	35.43 ± 4 mil	35.43 ± 4 mil	35.43 ± 4 mil
Weight (Coated)	750 ± 45 g/m ²	750 ± 45 g/m ²	750 ± 45 g/m ²
	22.1 ± 1.5 oz/sq yard	22.1 ± 1.5 oz/sq yard	22.1 ± 1.5 oz/sq yard
Mullen Burst	> 50 bar	> 50 bar	> 50 bar
	> 725 PSI	> 725 PSI	> 725 PSI
Tensile Strength (Warp / Weft)	> 65.64 N/mm	> 65.64 N/mm	> 77 N/mm
	> 170 Kg/inch	> 170 Kg/inch	> 200 Kg/inch
MIT Flex (Warp/ Weft)	> 8000 cycles	> 8000 cycles	> 8500 cycles
	> 3000 cycles	> 4000 cycles	> 4000 cycles
Coating Finish only	<ul style="list-style-type: none"> • Polytetrafluoroethylene • Acid Resistant Polymer • Tri component (SGT) 	<ul style="list-style-type: none"> • Polytetrafluoroethylene • Acid Resistant Polymer • Tri component (SGT) 	<ul style="list-style-type: none"> • Polytetrafluoroethylene • Acid Resistant Polymer • Tri component (SGT)
Air Permeability	20-48 cm ³ /cm ² /sec @ 125 pa 190-450 L/dm ² /min @200 PA	18-36 cm ³ /cm ² /sec @ 125 pa 170-340 L/dm ² /min @200 PA	18-36 cm ³ /cm ² /sec @ 125 pa 170-340 L/dm ² /min @200 PA
Visual Colour	<ul style="list-style-type: none"> • Cream (for PTFE) • Ash Grey (for AR) • Carbon Black (for SGT) 	<ul style="list-style-type: none"> • Cream (for PTFE) • Ash Grey (for AR) • Carbon Black (for SGT) 	<ul style="list-style-type: none"> • Cream (for PTFE) • Ash Grey (for AR) • Carbon Black (for SGT)
Coating Finish with Membrane	e-PTFE membrane over chosen finish	e-PTFE membrane over chosen finish	e-PTFE membrane over chosen finish
Pore Size	0.65 µm - 1 µm	0.65 µm - 1 µm	0.65 µm - 1 µm
Air Permeability	2-5 cm ³ /cm ² /sec @ 125 pa 19-48 L/dm ² /min @200 PA	2-5 cm ³ /cm ² /sec @ 125 pa 19-48 L/dm ² /min @200 PA	2-5 cm ³ /cm ² /sec @ 125 pa 19-48 L/dm ² /min @200 PA



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For Reverse Bag House Application



	STF-W-FG-450	STF-W-FG-325
Weave Pattern	Twill	Twill
Construction	44.0 ± 2.0 / inch	54.0 ± 2.0 / inch
	24.0 ± 2.0 / inch	30.0 ± 2.0 / inch
Thickness	0.35 mm ± 0.05 13 mils ± 2	0.3 mm ± 0.05 12 mils ± 2
	470 ± 30 g/m ² 16.5 ± 1 oz/sq yard	350 ± 30 g/m ² 11.5 ± 1 oz/sq yard
Mullen Burst	> 27 Bar > 400 PSI	> 27 Bar > 400 PSI
Tensile Strength (Warp/ Weft)	> 46.33 N/mm > 120 kg/inch	> 34.75 N/mm > 90 kg/inch
	> 36.68 N/mm > 95 kg/ inch	> 28.96 N/mm > 75 kg/inch
Coating finish	<ul style="list-style-type: none"> • Polytetrafluoroethylene • Acid Resistant Polymer • Tri Component (SGT) 	<ul style="list-style-type: none"> • Polytetrafluoroethylene • Acid Resistant Polymer • Tri Component (SGT)
Membrane	e-PTFE membrane over chosen finish	e-PTFE membrane over chosen finish
Pore size	0.65 µm - 1 µm	0.65 µm - 1 µm
Air Permeability	2-5 cm ³ /cm ² /sec @ 125 pa 19-48 L/dm ² /min @200 PA	2-5 cm ³ /cm ² /sec @ 125 pa 19-48 L/dm ² /min @200 PA
Visual Colour	<ul style="list-style-type: none"> • Cream (for PTFE) • Ash grey (for AR) • Carbon black (for SGT) 	<ul style="list-style-type: none"> • Cream (for PTFE) • Ash grey (for AR) • Carbon black (for SGT)

Textrov® AluSafe

C4 Class Radiant Heat Barrier



STYLE	CLASSIFICATION	DESCRIPTION	WEIGHT	CERTIFICATION
STF-ALM-FG-220	Fiberglass	Satin weave E-Glass with Dual mirror	220 g/m2 6.49 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4)
STF-ALM-FG-440	Fiberglass	Satin weave E-Glass with Dual mirror	440 g/m2 12.98 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4)
STF-ALF-FG-440	Fiberglass	Satin weave E-Glass with Aluminium foil	440 g/m2 12.98 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C3)
STF-ALM-FG-850	Fiberglass	Satin weave E-Glass with Dual mirror	850 g/m2 25 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, F1)
STF-ALF-FG-850	Fiberglass	Satin weave E-Glass with Aluminium Foil	850 g/m2 25 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C3, F1)
STF-ALM-HS-600	Hi Silica	Plain weave with Dual Mirror	600 g/m2 17.7 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, F1)
STF-ALF-HS-600	Hi Silica	Plain weave with Aluminium Foil	600 g/m2 17.7 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C3, F1)
STF-ALM-PA-KR-250	Para-aramid	Rip stop knit with Dual Mirror	250 g/m2 7.37 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4) *NFPA 1971-2018
STF-ALM-PA-440	Para-aramid	Plain weave with Dual Mirror	440 g/m2 12.98 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, F1) *NFPA 1971-2018
STF-ALM-PA-550	Para-aramid	Herringbone weave with Dual Mirror	550 g/m2 16.22 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, D1, E1, F1) *NFPA 1971-2018
STF-ALM-PACP-600	Para-aramid	Core spun yarn (aramid over Fibre glass) in plain weave with Dual Mirror	600 g/m2 17.7 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, D1, E1, F1) *NFPA 1971-2018
STF-ALM-OPAM-260	O-PAN	Plain Weave with Dual mirror	260 g/m2 7.67 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, D3, E3, F1)
STF-ALM-OPAM-440	O-PAN	Plain Weave with Dual mirror	440 g/m2 12.98 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, D3, E3, F2)
STF-ALM-OPAM-570	O-PAN	Core spun yarn (aramid O-PAN over Fibre glass) in plain weave with Dual Mirror	570 g/m2 16.81 oz/yd2	EN ISO 11612:2010 (A1, A2, B1, C4, D3, E3, F2)



Peel: Pass (ASTM D903) | Tensile: Pass (ASTM D5035) | Tear: Pass (ASTM D1938)
Abrasion: Pass (ASTM D4060)

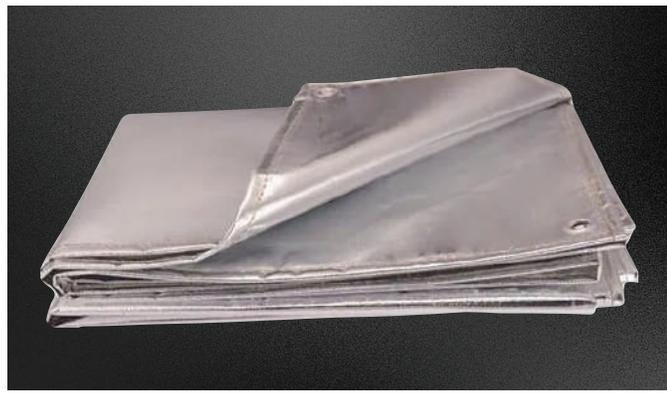
* NFPA tests are conducted and verified at internal lab

C4 Class Radiant Heat Barrier



Indutech

- Heat Shielding Wraps, Mats and Curtains
- Blankets, Curtains
- Insulation
- Expansion Joints



Style No.	Classification	Description	Weight
STF-ALM-FG-220-IND	Fibreglass	Plain weave E-Glass with Dual mirror	270 g/m2 7.96 oz/yd2
STF-ALM-FG-440-IND	Fibreglass	Satin weave E-Glass with Dual mirror	500 g/m2 14.74 oz/yd2
STF-ALM-FG-850-IND	Fibreglass	Satin weave E-Glass with Dual mirror	900 g/m2 26.54 oz/yd2
STF-ALM-HS-600-IND	Hi Silica	Satin weave with Dual Mirror	670 g/m2 19.76 oz/yd2
STF-ALM-PA-330-IND	Para-Aramid	Herringbone weave with Dual mirror	350 g/m2 10.32 oz/yd2
STF-ALM-PA-440-IND	Para-Aramid	Herringbone weave with Dual Mirror	510 g/m2 15.04 oz/yd2

All above models are also available with Aluminium Foil option.





Packtech



Mobiletech



Buildtech



• Box Packing • Fire Compartment Packing • Pallate Packing

Style No.	Classification	Description	Weight
STF-ALM-FG-220-IND	Fibreglass	Plain weave E-Glass with Dual mirror	270 g/m2 7.96 oz/yd2
STF-ALM-FG-220-FSB	Fibreglass	Plain weave E-Glass with fire block polymer coating with one side Dual mirror	270 g/m2 7.96 oz/yd2
STF-ALM-PET-200-PKT	Polyester	Plain weave with Dual mirror	230 g/m2 6.78 oz/yd2
STF-ALM-PPSB-200-PKT	PP Non woven	Spun Bond with Dual mirror	230 g/m2 6.78 oz/yd2

• Process Fabric • Insulation Fabric • Parts Shield

Style No.	Classification	Description	Weight
STF-ALM-FG-220-IND	Fibreglass	Plain weave E-Glass with Dual mirror	270 g/m2 7.96 oz/yd2
STF-ALM-FG-440-IND	Fibreglass	Satin weave E-Glass with Dual mirror	500 g/m2 14.74 oz/yd2
STF-ALM-FG-850-IND	Fibreglass	Satin weave E-Glass with Dual mirror	900 g/m2 26.54 oz/yd2
STF-ALM-HS-600-IND	Hi Silica	Satin weave with Dual Mirror	670 g/m2 19.76 oz/yd2

• Building Envelope Insulation • Equipment Room Insulation

Style No.	Classification	Description	Weight
STF-ALM-FG-100-IND	Fibreglass	Plain weave Fibre Glass with Dual mirror	170 g/m2 5.01 oz/yd2
STF-ALM-FG-150-IND	Fibreglass	Plain weave Fibre Glass with Dual mirror	220 g/m2 6.48 oz/yd2
STF-ALM-FG-200-IND	Fibreglass	Plain weave Fibre Glass with Dual mirror	270 g/m2 7.96 oz/yd2



Protech



Indutech

Spark / Heat / Flame Protection Blankets and Curtains



Car Fire Cover

Industrial Furnace

TMAX Series - Blankets

Light Duty Blankets/Curtains

General welding, light spark protection for fire, welding, cutting, grinding

Product	Thickness (mm)	Temp (°C)
Fire Resistant Fiberglass Fabric	0.8	550
Silicone/Glass Fabric	0.45	550
Alum/Glass Fabric	0.4	550



FIRE RESISTANT FIBERGLASS BLANKET



SILICON COATED BLANKET

Medium Duty Blankets/Curtains

Protection for sparks, spatter, minimal slag

Product	Thickness (mm)	Temp (°C)
Vermiculite/Glass Fabric	0.8	750
Vermiculite/Glass Fabric	1.0	750
Vermiculite/Glass Fabric	1.5	750
Silicone/Glass Fabric	0.9	550



HIGH SILICA FABRIC BLANKET



GRAPHITE COATED BLANKET

Heavy Duty Blankets/Curtains/Pads

Protection for heavy sparks, spatter, slag and light molten metal

Product	Thickness (mm)	Temp (°C)
Vermiculite/Glass Fabric	2	750
Silica Fabric	0.75	800
High Silica Fabric	0.75	1000
Vermiculite/High Silica Fabric	0.75	1100
Silicone/High Silica Fabric	0.8	1000
Silica Fabric	1.3	800



ALUMINISED FABRIC BLANKET



VERMICULITE COATED BLANKETS

Extremely Heavy Duty Blankets/Pads

Protection for heavy spatter, slag and molten metal

Product	Thickness (mm)	Temp (°C)
High Silica Fabric	1.3	1000
Vermiculite/High Silica Fabric	1.3	1100
Silicone/High Silica Fabric	1.4	1000
Vermiculite/Ceramic Fabric	2	1200
Vermiculite/Ceramic Fabric	3	1200



CARBON FABRIC BLANKET



CERAMIC FABRIC

TMAX are high temperature fabric stitched into Blankets for fire extinguishing, welding, spark protection, cutting and grinding, molten metal splash and other protective purposes. Resistance temperature ranges from 250 °C to 2000 °C.

All blankets are available in standard sizes of 1m x 1m and 1m x 2m. Made up of larger size are possible based on application.

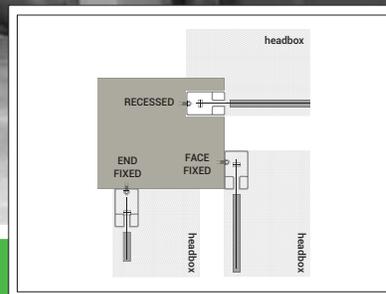
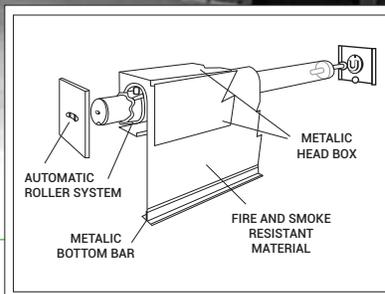


Buildtech



Indutech

For Smoke and Fire Block Curtain System



Application of SF Fabric

- 1) **Elevator Smoke Curtain System:** For blocking smoke transfer through lift shaft.
- 2) **Vertical Smoke Curtain System:** Atrium separation, opening in walls, etc.
- 3) **Perimeter Smoke Curtain System:** Space compartmentalisation.
- 4) **Horizontal Smoke Curtain System:** Separating floor to floor openings.
- 5) **Draft Curtain System:** Separation of large volume fixed on rafter area to channel smoke.

<p>STF-SFB-SI-FG</p>	<p>Fibre glass fabric with proprietary high temperature polymer overcoat.</p> <p>Available in rolls of various widths. Can be designed to single layered or multi layered system of any size.</p>	<p>Resistance to</p> <ul style="list-style-type: none"> • Fire • Smoke • Abrasion • UV • Weather • No mould and fungus growth <p>Exposure limit: 800 °C 1472 °F.</p>	<p>Tested on</p> <p>ASTM D6413: Vertical Flame resistance ASTM E-84: Surface flame spread ASTM F955: Molten metal Splash UL 1784: Smoke penetration test BSS 7239: Toxicity of product combustion</p>
<p>STF-SFB-VRM-FG</p>	<p>Fibre glass with coating of vermiculite compound</p> <p>Available in rolls of various widths. Can be designed to single layered or multi layered system of any size.</p>	<p>Resistance to</p> <ul style="list-style-type: none"> • Fire • Smoke • Abrasion • UV • Weather • No mould and fungus growth <p>Exposure limit: 1100 °C 2012 °F.</p>	<p>Tested on</p> <p>ASTM D6413: Vertical Flame resistance ASTM E-84: Surface flame spread ASTM F955: Molten metal Splash ASTM E-119: Furnace test UL 1784: Smoke penetration test BSS 7239: Toxicity of product combustion</p>



Industrial / Shed



Public Buildings



OUR ENGINEERING EXCELLENCE



Technical Textiles & Performance Materials



Industrial Filtration



Flexible Expansion Joints



Flange Guards & Spray Protectors



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