

TEXFILTM
FILTRATION



FILTER BAGS AND BAG HOUSE SOLUTIONS



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



Driven by Technocrats



Culture of Excellence



End to End Performance Control of the Product

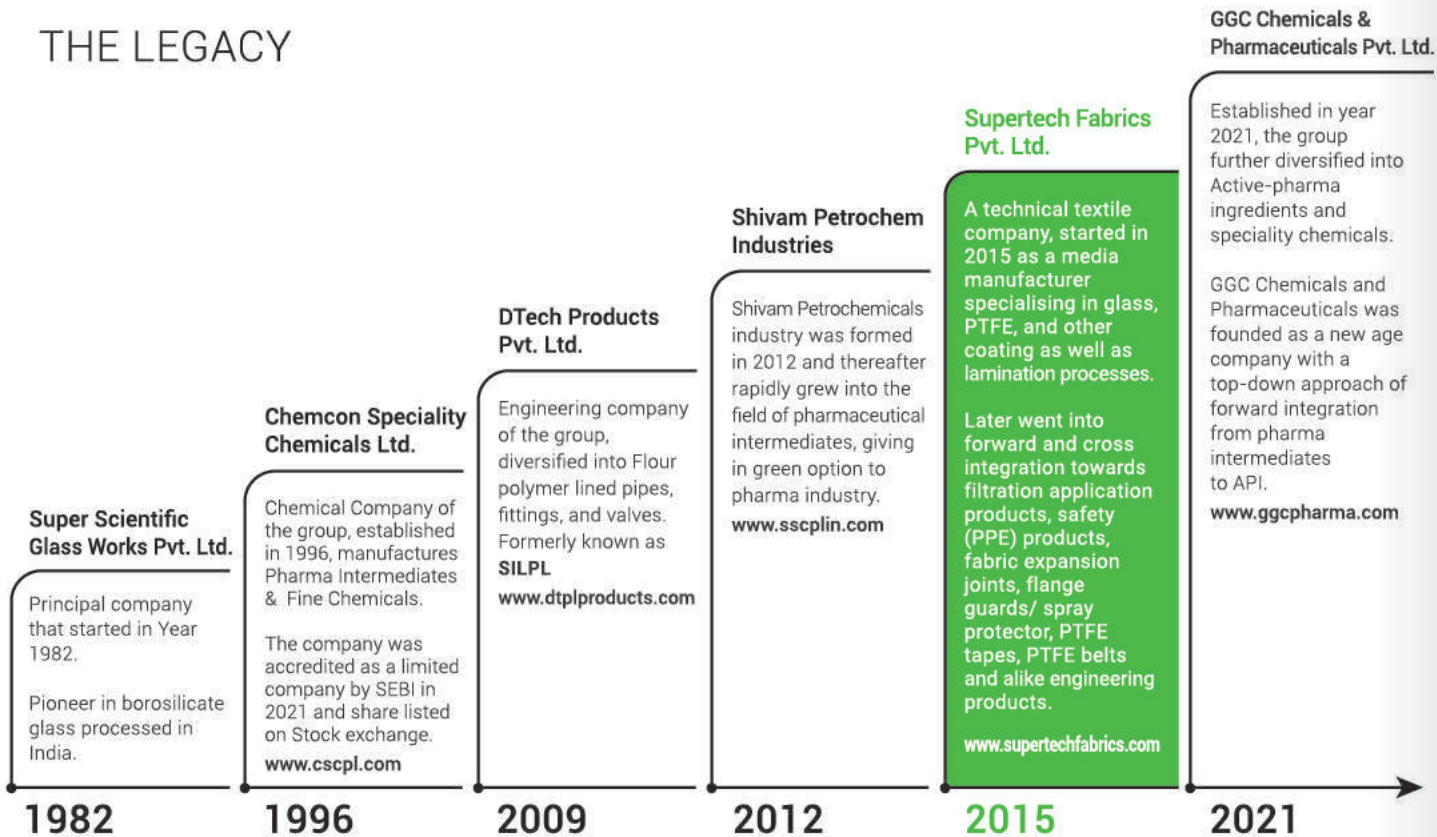


Highly Effective Quality Assurance Plan



Solution Oriented Approach

THE LEGACY



Craftmanship at each step

1

More than 85,000 Sq. Ft. of Production Space

- The production unit is established in Vadodara region, Gujarat, India.
- 1st in India to have started PTFE membrane lamination coating in the year 2016 and having 5 pass coating tower.

2

End to End Media Control

- Specifically engineered media construction and processes to provide performance criteria for efficient emission control and therefore higher ROI.

3

Robust Quality Assurance

- Systematic QA/QC program deployed to control quality from start to end; both at media and end product conversion level.
- In house lab for Fully equipped testings and providing custom performance materials.

4

Set of Automatic, Semi Automatic machines and in-line devices

- Plant boast of a mix of latest machines with automatic and semi automatic capabilities.
- The plant is fitted with process controllers, sensors and devices to manage quality, accuracy and flow.



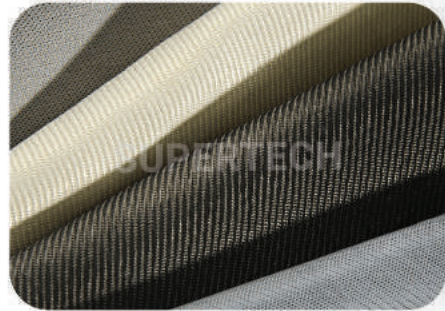
PRODUCT RANGE

FILTER BAGS

FILTER MEDIA BY "TEXTROV"

WOVEN FABRICS (GLASS / PTFE / POLYESTER)

- Fiberglass RABH Fabrics
 - Fiberglass PTFE Fabric
 - Fiberglass SGT Fabric
 - Fiberglass Acid Resistance Fabric
- Fiberglass Pulse Jet Fabrics
 - Fiberglass PTFE Fabric
 - Fiberglass SGT Fabric
 - Fiberglass Acid Resistance Fabric
- ePTFE Membrane Laminated Glass Fabric
 - Fiberglass PTFE Fabric
 - Fiberglass SGT Fabric
 - Fiberglass Acid Resistance Fabric
- Woven Polyester Fabric



NON-WOVEN FABRICS

- POLYPROPYLENE
- POLYESTER NON-WOVEN & WOVEN
- HOMOPOLYMER ACRYLIC
- MIXED HOMOPOLYMER ACRYLIC
- ARAMID
- PPS (POLYPHENYLENE SULPHIDE)
- P-84 POLYIMIDE
- 100% PTFE Felt
- FMS, NONWOVEN FIBREGLASS
- SPECIAL MICROFINE FIBERS ADDED CUSTOMISED FILTER MEDIA

MEDIA FINISHES

- ePTFE Membrane
- PTFE Treatment
- SGT Treatment
- Acid Resistant
- Antistatic
- Glazed
- Eggshell
- Fire Retardent

FILTER BAG DESIGN PARAMETERS

FILTER BAG TYPES

- Pulse Jet Filter Bags
- Reverse Air Filter Bags (RABH)
- Filter Shaker Bags/Shaker Bags
- Liquid Filtration Filter Bags
- Filter Bags for Special

BAG DESIGNS

- Snap Band Design
- Collar Type
- Ring Type
- Rope Type
- Felt Type
- Cup Type
- Envelope Type

DESIGNS OF BAG



Snap Band



Collar Type



Ring Type



Felt Type



 FG 350 GSM SGT (RABH)	 ACID RESISTANT (RABH)	 PTFE (RABH)	 FG 350 GSM SGT with MEMBRANE (RABH)
 FG ACID RESISTANT with MEMBRANE (RABH)	 PTFE with MEMBRANE (RABH)	 P84 (PJBH)	 ARAMID (PJBH)
 PPS (PJBH)	 FMS (PJBH)	 100% PTFE FELT (PJBH)	 FG 750 GSM SGT GLASS FABRIC (PJBH)
 FG 750 GSM ACID RESISTANT (PJBH)	 FG 750 GSM PTFE (PJBH)	 FG 750 GSM ACID RESISTANT with MEMBRANE (PJBH)	 FG 750 GSM SGT GLASS FABRIC with MEMBRANE (PJBH)
 MIXED FELT (PJBH)	 HOMOPOLYMER ACRYLIC (PJBH)	 POLYESTER (PJBH)	 POLYPROPYLENE (PJBH)

Medium Temp. | 120-150°C

Low Temp. | < 90°C

High Temperature | > 150°C

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, is 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.

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.

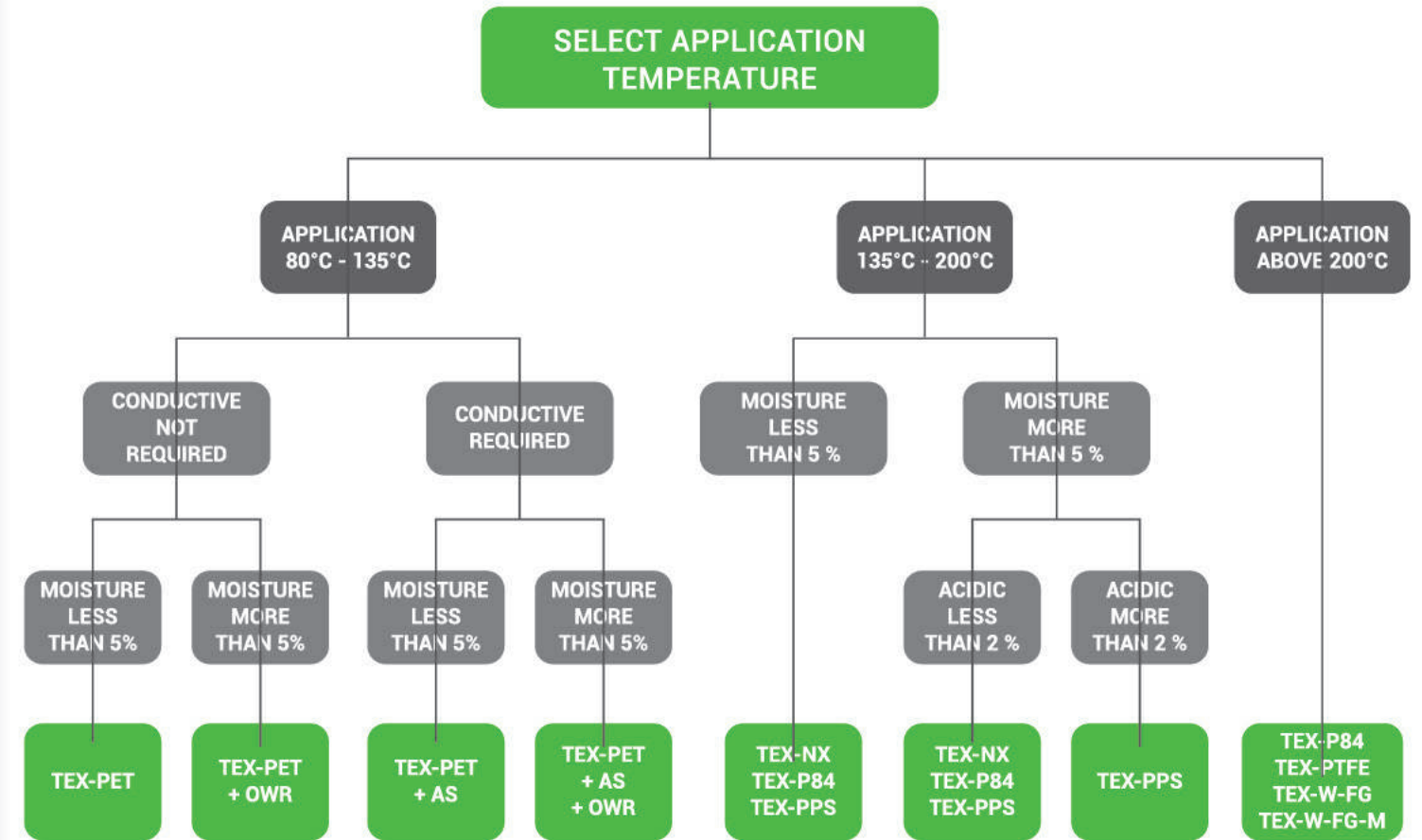
1 ASSESSING BAG HOUSE CONDITION AND FLUE ANALYSIS

2 SELECTION OF THE RIGHT MEDIA

3 QUALITY OF PRODUCT AND FITMENT SERVICES

4 MAINTAINING BAG HOUSE PARAMETERS AND PERIODIC SERVICING

SELECTION OF RIGHT MEDIA FOR APPLICATION CASE



QUALITY ASSURANCE PLAN FOR BAG PRODUCTION

QAP FOR FILTER MEDIA (BEFORE ISSUING IN BAG PLANT)

100% VISUAL INSPECTION

PHYSICAL PROPERTIES TESTING (BATCH WISE)

THERMAL PROPERTIES TESTING (BATCH WISE)



QAP FOR FINISHED FILTER BAGS

VISUAL INSPECTION

DIMENSIONAL INSPECTION

FITMENT INSPECTION

FILTER MEDIA SELECTION - NON WOVEN QR

Specifications	Testing Method	UOM	Non Woven																	
			TEX-550-PET	TEX-550-PETOWR	TEX-550-PETWR	TEX-550-PETN	TEX-550-PET-AS-OW	TEX-550-PET-AS-N	PPS	PPS	PPS	PPS								
Scrim			Polyester	Polyester	Polyester	Polyester	Anti Static Polyester	Anti Static Polyester	Anti Static Polyester	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Fiberglass	Fiberglass	Fiberglass	Fiberglass
Finish			Non	Chemical Finish for Water & Oil repellency	PTFE Membrane Lamination	PTFE Membrane Lamination	PTFE Membrane Lamination	PTFE Membrane Lamination	PTFE Membrane Lamination	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	Chemical Finish for Water & Oil repellency	PTFE Membrane Lamination	PTFE Membrane Lamination	PTFE Membrane Lamination	PTFE Membrane Lamination
Weight ±10%	oz/yd ² g/m ²		16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	16.2 550	26.5 900	26.5 900	26.5 900	26.5 900
Thickness ±10%	In MM		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4
Tensile Strength																				
Warp	lbs./inch N/cm		>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>88 >160	>200 >350	>200 >350	>200 >350	>200 >350
Weft	lbs./inch N/cm		>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>110 >190	>200 >350	>200 >350	>200 >350	>200 >350
Air Permeability	cfm/sq.ft cm ³ /cm ² /s		26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	26-32 13-16	15-40 8-20	4-16 2-8	4-16 2-8	4-16 2-8	
Mullen Burst	psi kPa		500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	500 3450	425 3000	425 3000	425 3000	425 3000	
Elongation %	WARP WEFT		15 25	15 25	15 25	15 25	15 25	15 25	15 25	15 25	15 25	15 25	15 25	15 25	15 25	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	
Operating Temperature	Continuous Peaks	°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤135°C ≤150°C	≤160°C ≤190°C	≤160°C ≤190°C	≤160°C ≤190°C	≤160°C ≤190°C	
Acid Resistance			Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Good	Good	Good	Good	
Alkali Resistance			Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Good	Good	Good	Good	
Hydrolysis Resistance			Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Good	Good	Good	Good	
Applications			*Ambient, Nuisance dust applications,*	Nuisance dust filter	For low temperature dust collection application with improved filtration efficiency	Filtration Process tend to build static charges and to discharges it also helps to protect filter bags with potential ignition sources.	To discharge static charges also to improve filtration efficiency.	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*	*High temperature fly ash applications with improved filtration efficiency*
Dust Types			*Flour, sugar, starch, pharmaceuticals, minerals, shotblasting, woodwaste, tobacco, polymers, etc.*	Pharmaceuticals, minerals, shotblasting	Pharmaceuticals, Carbon Black, Cement, Polymers	Shortblasting, Pharmaceuticals, Cement, Minerals	Shortblasting, Pharmaceuticals, Cement, Minerals	*Fly ash and metal oxides*	*Fly ash and metal oxides*	*Fly ash and metal oxides*	*Fly ash and metal oxides*	*Fly ash and metal oxides*	*Fly ash and metal oxides*	*Fly ash and metal oxides*	*Fly ash and metal oxides*	Fly ash	Fly ash	Fly ash	Fly ash	
Markets				*ambient filtration in food, pharmaceutical, metal working, foundries, minerals and plastic etc.*	*ambient filtration in food, pharmaceutical, metal working, foundries, minerals and plastic etc.*	*ambient filtration in food, pharmaceutical, metal working, foundries, minerals and plastic etc.*	*ambient filtration in food, pharmaceutical, metal working, foundries, minerals and plastic etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	*Industrial and municipal waste incineration, coal or wood fired boilers, metal smelting etc.*	Boilers, Metal smelting	Boilers, Metal smelting	Boilers, Metal smelting	Boilers, Metal smelting	

FILTER MEDIA SELECTION - WOVEN QR



Specifications	Testing Method	UOM	Woven																	
			TEX-AR	TEX-PTE	TEX-SGT	TEX-AR-AM	TEX-PTE-AM	TEX-SGT-AM	TEX-AR	TEX-PTE	TEX-SGT	TEX-AR-AM	TEX-PTE-AM	TEX-SGT-AM						
WARP YARN			US Glass System Tex System	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2	EC G 75 ½ EC G 67 X 2
WEFT YARN			US Glass System Tex System	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2	EC G 37 ½ EC G 134 X 2
Fabric Count (WA x WE)			Yarns Per Inch Yarns per Cm	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16	48 X 42 19 X 16
Weave Pattern			Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face	Double Filling Face
Finish			AR Finish	PTFE Finish	SGT Finish	AR With PTFE Membrane	PTFE With PTFE Membrane	SGT With PTFE Membrane	AR With PTFE Membrane	PTFE With PTFE Membrane	SGT With PTFE Membrane	AR With PTFE Membrane	PTFE With PTFE Membrane	SGT With PTFE Membrane	AR With PTFE Membrane	PTFE With PTFE Membrane	SGT With PTFE Membrane	AR With PTFE Membrane	PTFE With PTFE Membrane	SGT With PTFE Membrane
Weight	oz/yd ² g/m ²		22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850	22-25 750-850
Thickness	In MM		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Tensile Strength																				
Warp	lbs./inch N/cm		>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>375 >650	>290 >500	>290 >500	>290 >500	>290 >500
Weft	lbs./inch N/cm		>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>420 >750	>400 >700	>400 >700	>400 >700	>400 >700
Air Permeability	cfm/sq.ft cm ³ /cm ² /s		60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	60-120 30 - 60	4-10 2-5	4-10 2-5	4-10 2-5	4-10 2-5
Mullen Burst	psi kPa		>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	>600 >4200	
Elongation @ Break %	WARP WEFT		≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	≤10 ≤10	
MIT Flextest	WARP WEFT		≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	≥8000 ≥3000	
Operating Temperature	Continuous Peaks	°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	≤260°C ≤290°C	
Applications			Recommended for Industrial Boiler & Carbon Black	Recommended for utility based load boilers	Recommended for Cement & Foundry Industries	Recommended for Industrial Boiler & Carbon Black. High temperatures applications where improved efficiency and long life is required	Recommended for Cement & Foundry Industries	Recommended for utility based load boilers. High temperatures applications where improved efficiency and long life is required	Recommended for Industrial Boiler & Carbon Black. High temperatures applications where improved efficiency and long life is required	Recommended for Cement & Foundry Industries	Recommended for utility based load boilers. High temperatures applications where improved efficiency and long life is required	Recommended for Industrial Boiler & Carbon Black. High temperatures applications where improved efficiency and long life is required	Recommended for Cement & Foundry Industries	Recommended for utility based load boilers. High temperatures applications where improved efficiency and long life is required	Recommended for Industrial Boiler & Carbon Black. High temperatures applications where improved efficiency and long life is required	Recommended for Cement & Foundry Industries	Recommended for utility based load boilers. High temperatures applications where improved efficiency and long life is required	Recommended for Industrial Boiler & Carbon Black. High temperatures applications where improved efficiency and long life is required	Recommended for Cement & Foundry Industries	Recommended for utility based load boilers. High temperatures applications where improved efficiency and long life is required
Dust Types			Normal ash generated by regular coal burning	Abrasive dust possibly with moisture content	Dust with moisture and sulphur content	Normal ash generated by regular coal burning	Dust with moisture and sulphur content	Normal ash generated by regular coal burning	Abrasive dust possibly with moisture content	Dust with moisture and sulphur content	Normal ash generated by regular coal burning	Abrasive dust possibly with moisture content	Dust with moisture and sulphur content	Normal ash generated by regular coal burning	Abrasive dust possibly with moisture content	Dust with moisture and sulphur content	Normal ash generated by regular coal burning	Abrasive dust possibly with moisture content	Dust with moisture and sulphur content	
Markets			Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	Cement, asphalt, Sugar mill, paper mill, textiles, chemicals, pharma	



METAL

Ferro Alloys	Steel Mills	Aluminium
<ul style="list-style-type: none"> 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) <p>Usage</p> <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Nature of dust: Fine, free-flowing, mildly abrasive Cleaning Mode: Offline or Online <p>Usage</p> <ul style="list-style-type: none"> 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 	<p>Main applications are:</p> <ol style="list-style-type: none"> Main Pot Room Baghouse (GTC) Carbon Anode Plant Bag Filters <ul style="list-style-type: none"> Nature of dust: Fine, free-flowing, mildly abrasive Cleaning Mode: Offline or Online Design Gas temperature: 135 °C Design Surge Temperature: 150 °C <p>Usage</p> <ul style="list-style-type: none"> 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	Cement Mills	Coal Mills
<ul style="list-style-type: none"> 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 <p>Usage</p> <ul style="list-style-type: none"> 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 - P84® (Polyimide) Felt 	<ul style="list-style-type: none"> Dust Handled: Cement Dust Design Temperature: 135 °C for Polyester and 127 °C for Acrylic Surge Temperature: 140 °C for Acrylic and 150 °C for Polyester Dust Load: 30-600 g/Nm3 <p>Usage</p> <ul style="list-style-type: none"> Low moisture and temperature combination - Polyester felt High moisture and temperature combination - Acrylic homopolymer felt 	<ul style="list-style-type: none"> Nature of dust: Explosive, Free Flowing Dust Load: 30-500 g/Nm3 Design Temperature: 135 °C for Polyester and 127 °C for Acrylic Surge Temperature: 140 °C for Acrylic and 150 °C for Polyester <p>Usage</p> <ul style="list-style-type: none"> Low moisture and temperature combination - Anti static polyester felt High moisture and temperature combination - Anti static acrylic homopolymer felt



POWER

MSW Incinerators	Coal Fired Power Plants
<ul style="list-style-type: none"> 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 <p>Usage</p> <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Dust To be handled: Flue gases containing fly ash Nature of dust: Fine, free-flowing, abrasive Cleaning Mode: Online/Offline Design Gas temperature: 140 to 160 °C Design Surge Temperature: 180 to 200 °C Dust Load: 5-20 g/m3 <p>Usage</p> <ul style="list-style-type: none"> Most commonly used felt when O2 is low and the temperature is <160 °C. Temp should never exceed 190 °C. Membrane is used if the frequency of steam tube leakages is high. With every steam tube leakage (moisture getting into bag filter), membrane bags recover easier in comparison without removal and manual cleaning - PPS Felt P-84 is added on the surface of the felt to improve filtration efficiency, mainly used to reduce emissions Fiberglass with PTFE membrane is a good option if the temperature is high as it can withstand up to 260 °C or the O2 level is high. Also, membrane provides lower emission.



CHEMICALS

Carbon Black	Pharmaceuticals	Dryers
<p>Main Bag Filter</p> <p>Type of Filters: Pulse Jet & Reverse Air</p> <p>Design Temperature: 230 ~ 260°C</p> <p>Issues</p> <ul style="list-style-type: none"> Premature failure resulting in expensive downtime High Pressure Drop Failure due to chemical attack and temperature excursion <p>Usage</p> <ul style="list-style-type: none"> 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. 	<p>Dryer Filter</p> <p>Type of Filter: Pulse Jet</p> <p>Design Temperature: 190 ~ 260°C</p> <p>Issues</p> <ul style="list-style-type: none"> High moisture and acidic gases Oil exposure to the filter surface Failure due to chemical attack and temperature excursion <p>Usage</p> <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Nature of dust: Explosive, Free Flowing Dust Load: 30-500 g/Nm3 Design Temperature: 135 °C for Polyester and 127 °C for Acrylic Surge Temperature: 140 °C for Acrylic and 150 °C for Polyester <p>Usage</p> <ul style="list-style-type: none"> Membrane filter bags are recommended. Polyester and Acrylic felt filter bags are typically used. If the inlet temperature exceeds 130 °C then aramid bags are recommended.

SYSTEMS

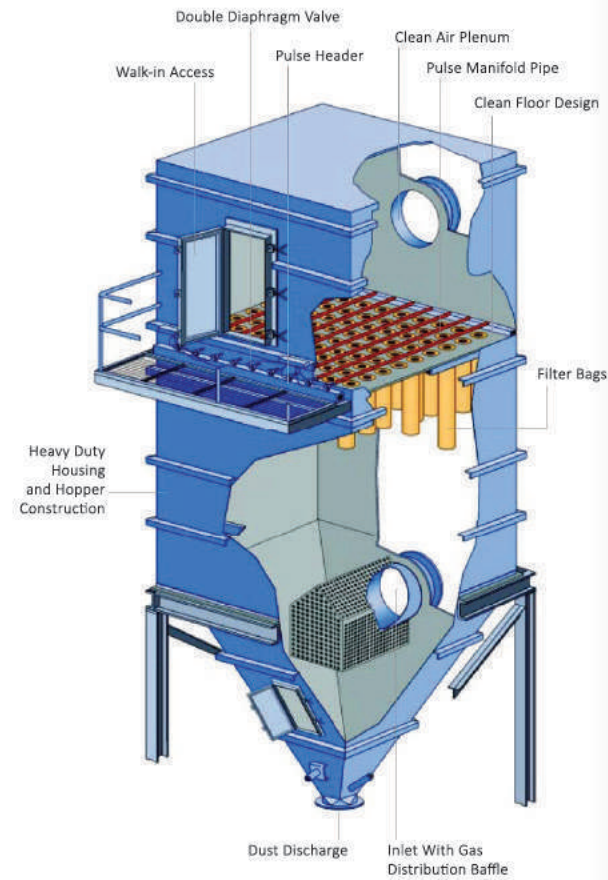
Pulse Jet / Reverse Air / Mechanical Shaker Cleaning Systems

SUPERTECH FABRICS offers a complete range of filter bags for dust collection systems in a wide assortment of fabrics, finishes, styles and sizes.

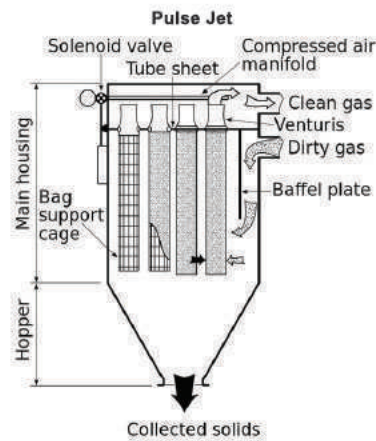
We customize filtration fabrics to maximum filtration efficiency, dust cake release, and durability.

Changes to gas stream chemistry, moisture or hydrocarbons, and/or high temperature spikes, as well as operating conditions, need to be considered to maximize filter life and performance.

The style and construction of bags are typically determined by the collector cleaning system, and if support cages are needed.



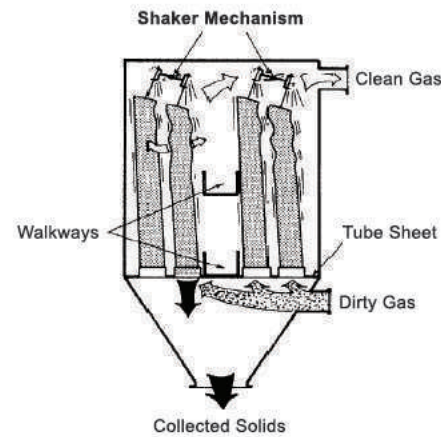
PULSE JET BAG HOUSE



ADVANTAGES

- High collection efficiency
- High air-to-cloth ratio (6 to 10 ft/min)
- Aggressive Cleaning Action
- Continuous
- Strong woven bags
- Lower bag wear
- Smaller footprint required
Bag changing without entering baghouse

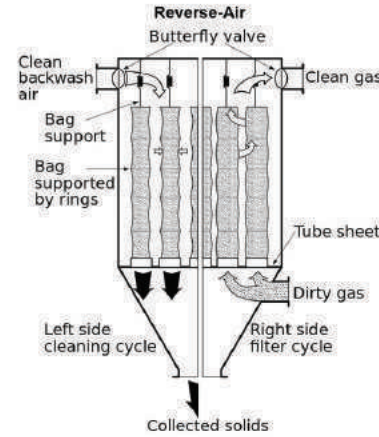
MECHANICAL SHAKER BAG HOUSE



ADVANTAGES

- High collection efficiency
- Strong woven bags
- Easy operation

REVERSE AIR BAG HOUSE



ADVANTAGES

- High collection efficiency
- Preferred for high temperatures

CAGES & ACCESSORIES

FILTER CAGE

Our cages are manufactured by a high-grade raw material in order to increase the durability of the cage. We make cages in galvanized steel, mild steel and stainless steel moc.

Cages are fabricated from

- Galvanized carbon Steel
- 304 Stainless Steel
- 316 Stainless Steel
- Mild Steel

Split Designs

- Ring to Ring Locking
- Twist Lock
- Groove Split Lock
- Slide Lock

Types of cages

- Single piece type
- Split type
- Round type
- Flat type

Types of Surface Finish

- Heat Resistance Aluminum Paint
- Heat Resistance Black Paint
- Galvanizing
- Epoxy
- Powder Coating



Cage constructions consist of 8,10, 12, 18 & 20 vertical wires or as per customer requirement.

We have strict in house quality checks before dispatched to our valuable clients. We have specialized team of experts who do quality checking under certain parameters that meets international standards. E.g. Weld strength, straightness & ovality, smooth finish all over cage.

ACCESSORIES

TENSIONING ASSEMBLY



Maintaining proper tension is very important to the life and performance of reverse air fabric filters and a full range of hanging hardware is available, including:

Draw Bar Assemblies, J Bolts, Chain S Hook Type, Linear Springs, Non-Linear Springs, Coined Hangers Specialty Hanging Hardware

CAGE VENTURIES



Venturies add to the cleaning efficiency of pulse jet bag filters. We offer a wide range of venturies for both top & bottom removal cages.

CLAMPS



Clamps are often the cause of dust leakage and bag failure. There are different clamps for different applications - Worm Gear, T-Bolt or Spring Latch - that our technical specialists can recommend.

FLUORESCENT POWDER



Fluorescent powder is the most efficient method of identifying tears, holes, weld cracks and other leakages from the bag filter with the help of ultraviolet light.

DOOR SEALS



We have a variety of door seals and gaskets that prevent outside air from leaking into your fabric filter. Properly sealed doors can prevent fugitive emissions, reduction of airflow and production loss condensation from in-leakage.

PNEUMATIC VALVES



Pulse jet cleaning bag filters utilizes diaphragm valves to pass compressed air from the air supply lines and manifold blow pipes within the bag filter.



BAG HOUSE INSPECTION AND FLUE ANALYSIS

- Bag House Inspection
- Problem Analysis
- Type of Bag Failure (Mechanical)
- Application Specific Due Diligence
- System Upgradation Suggestion for Require Emmision Levels



INSTALLATION AND COMMISSIONING

- On Site Installation
- Leak Detection Testing
- Pre-Coating of Bags
- Expert Technical Team
- Live Purging Process Observations
- Post Installation Guidance



BAG ANALYSIS

- Causes of Bags Failure
- Application Effect on the Bags
- Dust Analysis
- Suggestion for the Filter Media as per the Analysis



FITMENT GUIDE (PULSE JET)



FITMENT GUIDE (RABH)



BE RESPONSIVE

LONGER SERVICE LIFE PRODUCTS

RESPECT BUDGETS

THOROUGH TECHNICAL

FAST SUPPLY CAPACITY

QUICK CONCERN RESOLUTION

PRODUCT LOGISTICS

- Mechanical Handling
- Advance Packaging
- Palletisation and Sea-Worthy Covers
- Safe and Secure Dispatch



OUR ENGINEERING EXCELLENCE



Performance Technical Textiles



Industrial Filtration



Flexible Expansion Joints



Flange Guards & Spray Protectors



Protective Gears and Apparels



Reg. Office & Works

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