

Silicone Coated Fiberglass Fabric Supplier

Fenhar New Material Thermal Insulation Branch

Tel: +86 18952117287

Email: info@fenhar-seals.com

Website: www.siliconecoated.com



Fiberglass Yarn For Weaving

Specifications:

Product Code	Glass	Filament Diameter	Type in U.S.A.	Twist Degree
EC9-33X1X2	E	9um	ECG 150 1/2	S65
EC9-33X1X3	E	9um	ECG 150 1/3	S65
EC9-33X2X3	E	9um	ECG 150 2/3	S110
EC9-68X1X0	E	9um	ECG 75 1/0	Z28-35
EC9-68X1X2	E	9um	ECG 75 1/2	S28-110
EC9-136X1X0	E	9um	ECG 37 1/0	Z28-35
EC9-136X1X2	E	9um	ECG 37 1/0	S28-110
EC5.5-12x1x 0	E	5.5um	ECD 450 1/0	S40
EC5.5-12 x1 x 2	E	5.5um	ECD 450 1/2	S40
CC9-33 x1 x 2	C	9um	CCG 150 1/2	S28-100
CC9-33 x2 x2	C	9um	CCG 150 2/2	S28-100

Fiberglass Yarn Finished

Specifications:

Product Code	Type	Tex	Temperature
FFY3000	Fiberglass Texturized Yarn	200 to 5000	550°C
FFY3410	Fiberglass Yarn Twisted With SS304	1100 to 2400	550°C
FFY3420	Fiberglass Yarn Twisted With Copper Wire	1100 to 2400	550°C
FFY6000	PTFE Coated Fiberglass Sewing Thread	150 or 200	400°C
FFY6100	Sewing Thread With SS Wire	150 or 200	815°C



Fiberglass Rope (Cord)

1: FFR1000/1100
Style FFR1000 - Square Packing/ Rope
Style FFR1100 - Round Rope
Spec: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 2" etc
Spec: 5.0mm~60mm
Temp: 550°C
Package: In CTN or plastic woven bag of 20KGS
+V: Vermiculite Coated; +S: Silicone Coated;
+SS: Wire Reinforced

2: FFR1200
Fiberglass Knitted Rope
Spec: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 2" etc
Temp: 550°C
Package: In CTN or plastic woven bag of 20KGS
+G: Graphite Coated; +S: Silicone Coated;
+HT: Heat Treated

3: FFR1300
Twisted Fiberglass Rope
Spec: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 2" etc
Spec: 5.0~60mm
Temp: 550°C
Package: In CTN or plastic woven bag of 20KGS



4: FFR1400
Fiberglass Lagging Rope
Temp: 550°C
Spec: 10~50mm
Package: In CTN or plastic woven bag of 20KGS

Fiberglass Tape

1: FFT2000
Non-Alkali Insulation Fiberglass Tape
Spec: Thickness 0.08~0.35mm, Width: 10~150mm, Length:50~100m
Temp: 550°C
Package: In CTN or plastic woven bag of 10~50 rolls

2: FFT2100
Texturized Fiberglass Tape
Spec: Thickness 0.5~6mm, Width: 10~900mm, Length:25~50m
Temp: 550°C
Package: In CTN or plastic woven bag of 20KGS

3: FFT2100
Fiberglass Ladder Tape
Spec: Thickness 0.5~6mm, Width: 20~200mm, Length:25~50m
Temp: 550°C
Package: In CTN or plastic woven bag of 20KGS

5: FFT2300
Fiberglass Mesh Tape
Net hole: 2.85mm x 2.85mm; 3.2mm x 3.2mm
Weight: 50g/m2 or 60g/m2
Width: 45mm, 50mm, 60mm, 100mm, 120mm
Length: 20m, 50m, 100m
Other sizes needed, please contact with our sales



4: FFT2200
Knitted Fiberglass Tape With Self-Adhesive
Spec: Thickness 1~4mm, Width: 8~100mm,
Length: 25~50m
Temp: 550°C

6: FFT2000P
PTFE Coated Fiberglass Tape
Basic Thickness: 0.08, 0.12, 0.15, 0.18mm
Total Thickness: 0.13, 0.18, 0.20, 0.24mm
Max Width: 1000mm
Standard Length: 10, 33, 50, 100m
Temperature: -60~260°C

Fiberglass Cloth

1. Fiberglass Fabric

Product Code	Weave	Wrap end/in	Fill end/in	Warp Yarn	Fill Yarn	Weight oz/yd2	Weight g/m2	Thickness in.	Thickness mm
FHC-3721	3x1 Twill	48	32	ECG 37 1/0	ECG 37 1/0	12.6	430	0.0134	0.4
FHC-3734	Twill	35	30	ECG 37 1/2	ECG 37 1/2	17.6	600	0.0216	0.6
FHC-3784	8HS Satin	46	35	ECG 37 1/2	ECG 37 1/2	26.4	900	0.0315	0.8
FHC-3786	6HS Satin	42	35	ECG 37 1/4	ECG 37 1/2	38.2	1300	0.0551	1.4
FHC-3788	12HS Satin	46	35	ECG 37 1/4	ECG 37 1/5	52	1700	0.0669	1.7
FHC-666	8HS Satin	41	38	ECG 75 1/3	ECG 75 1/3	19.4	660	0.0236	0.6
FHC-FW600	Double Plain	37	37	ECG 75 1/3	ECG 75 1/3	17.6	600	0.0228	0.6
FHC-FW800	Double Plain	37	37	ECG 37 1/2	ECG 37 1/2	23.5	800	0.03	0.8
FHC-333	Twill	48	32	ECG 37 1/0	ECG 37 1/0	12.9	430	0.0136	0.4
FHC-1080	Plain	60	47	ECD 450 1/0	ECD 450 1/1	1.43	50	0.0018	0.045
FHC-2116	Plain	60	58	ECE 225 1/0	ECE 225 1/1	3.08	100	0.0037	0.1
FHC-7628	Plain	44	32	ECG 75 1/0	ECG 75 1/1	6.17	200	0.0071	0.18~0.2
FHC-2523	Plain	28	20	ECH 25 1/3	ECH 25 1/4	11.8	400	0.014	0.36~0.4
FHC-80---	Plain					Request	Request	Request	Request

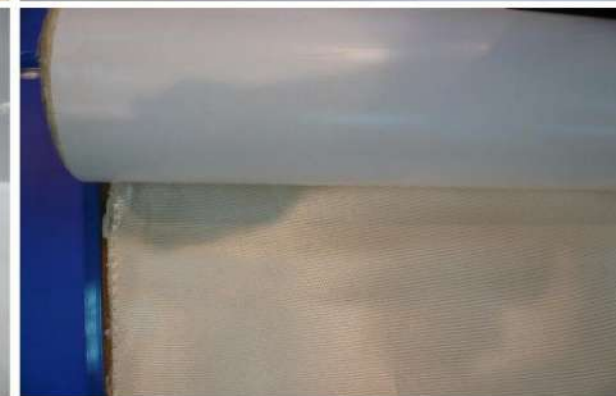
2. Texturized Fiberglass Fabric

Product Code	Weave	Weight g/m2	Thickness mm	Width m
FTC-TX600	Plain	600	0.8	1~1.8
FTC-TX800	Plain	800	1	1~1.8
FTC-TX1000	Plain	1000	1.5	1~1.8
FTC-TX1300	Plain	1300	2	1~1.8
FTC-TX1800	Plain	1800	3	1~1.8
FTC-84215	Plain	288	0.38	1~1.8
FTC-84217	Plain	288	0.38	1~1.8
FHC-2025	Plain	600	0.75	1~1.8
FHC-2115	Plain	645	0.8	1~1.8
FHC-M24	Plain	815	1	1~1.8
FHC-TX1500	Plain	1050	1.3	1~1.8
FHC-M30	Plain	1000	1.5	1~1.8
FHC-M35	Plain	1200	1.7	1~1.8
FHC-M52	Modified Plain	1760	3	1~1.8
FHC-M64	Modified Plain	2150	3.5	1~1.8
FHC-M72	Modified Plain	2450	4	1~1.8
FHC-2626	3x1 Twill	950	1	1~1.8
FHC-TWM13	Twill	430	0.5	1~1.8
FHC-SWM13	8H Satin	430	0.5	1~1.8
FHC-CWM13	Crowfoot	860	1	1~1.8
FHC-TWM100	Twill 2/2	3400	5	1~1.8

Finished Fiberglass Faric

Product Code	Finishing Type	Working Temperature	Feature	Application
FARC	Acrulonitrile-butadiene rubber coated fiberglass fabric	150℃	Increase resistance to abrasion and high temperature	Non-metal expanse joints, heat preservation material
FEPC	Ethylene propylene-diene monomer coated fiberlass fabric	150℃	Increase resistance to abrasion and high temperature	Non-metal expanse joints, heat preservation material
FLTC	Latex coated fiberglass fabric	150℃	Waterproof, gas defender and increase resistance to abrasion, high temperature absorb mote	Welding protection, waterproof material, fireproof material
FPVC	PVC coated fiberglass fabric	180℃	Good resistance to abrasion, oil, water and cuts	Welding protection, covering fabric
FNPC	Neoprene coated fiberglass fabric	200℃	Good resistance to abrasion and allergen	Welding protection
FPTC	PTFE coated fiberglass fabric	260℃	Anti-adhesive surface, soil repellent, acid resistant	Conveyor belt, acid resistant seclusion
FSRC	Silicone rubber coated fiberglass fabric	260℃	Mechanical load, chemical, oil and corrosive of resistant	Welding defender, compensators, insulation mats, heat production quilt
FFLC	Fluoroelastomer coated fiberglass fabric	280℃	Increase resistance to abrasion and high temperature	Non-metal expanse joints, heat preservation material
FACC	Acrylic coated fiberglass fabric	550℃	Good resistance to abrasion and cuts. Allergen resistant and anti-adhesive surface	Welding protection
FALC	Aluminum coated fiberglass fabric	550℃	Heat reflection, abrasion proof	Heat protection cushions, motor vehicle industry, protection for piping outside
FDCC	Dying and coloring fiberglass fabric	550℃	Heat protection	Heat protection, welding defender and different work area
FHCC	Heat cleaning fiberglass fabric	550℃	Decrease pulverous mote, good osmosis	Welding defender, general purpose insulation
FLVC	Level off veins fibergalss fabric	550℃	Good resistance to abrasion and cuts	Welding protection, heat preservation
FPOC	Polyurethane coated fiberglass fabric	550℃	Good resistance to abrasion, water, allergen and cuts	Welding protection
FSWC	Steel wire reinforcing fiberglass fabric	550℃	Increase tensile strength	Heavy duty insulation and seal
FGCC	Graphite coated fiberglass fabric	750℃	Increase resistance to abrasion and flame, high temperature absorb mote	Welding defender, general purpose insulation
FVMC	Vermiculite coating	850℃	Increase resistance to abrasion, flame, high heat	Welding defender, general purpose insulation
We could supply any kinds of fiberglass fabrics which thickness are above 0.4mm and any styles of coating				

Finished Fiberglass Faric



Fire Blanket

Our fire blanket could be specially treated in order to gain a better fireproof performance. And they have already gained BSEN1869:1997 certification

1. Suitable for use in kitchens, cars, ships, warehouses and petrol stations to smother flames to minimize burn injuries or prevent a fire from spreading
2. As a head and shoulder wrap to keep fire and heat away
3. Wrap a child or baby when escaping fire, smoke or heat
4. Place between space heaters and other surfaces
5. Moving or removing a hot object such as a kettel, frying pan or other hot appliances

Size: 1.0mx1.0m, 1.2mx1.2m, 1.2mx1.5m, 1.5mx1m, 1.5mx1.5m, 1.5mx1.8m, 1.2mx1.8m, 1.8mx1.8m



Welding Blanket

Welding blanket is made of fiberglass fabric or fiberglass fabric with all kinds of coatings. The fabric has excellent properties of perfect structure, high temperature resistance, electrical insulation and anti-oxidation.

The welding blankets not only provide protection from sparks, spatter, and slag, but also insulate rays to establish a safety, clean and normative environment workaround when welding and cutting working.



Ordinary Welding Blanket U				
Description	Code	Size	Weight	Thick ness
Fiberglass Welding Blanket	FWB-1301	1Mx1M 1Mx2M 2Mx2M	660g/m ²	0.65mm
	FWB-1302		880g/m ²	0.8mm
	FWB-1303		1700g/m ²	1.7mm
Texturized Fiberglass Welding Blanket	FWB-1304		600g/m ²	0.8mm
	FWB-1305		800g/m ²	1.0mm
	FWB-1306		1000g/m ²	1.5mm
	FWB-1307		1250g/m ²	2mm
	FWB-1308		1800g/m ²	3mm

Note: We also could supply heat treated or dyed fiberglass or texturized fiberglass welding blanket

Vermiculite Coated Welding Blanket VE				
Description	Code	Size	Weight	Thick ness
Vermiculite Coated Texturized Fiberglass Welding Blanket	FWB-1309	1Mx1M	720g/m ²	0.92mm
	FWB-1310	1Mx2M 2Mx2M	915g/m ²	1.1mm

Neoprene Coated Welding Blanket NE				
Description	Code	Size	Weight	Thick ness
Neoprene Coated Fiberglass Welding Blanket	FWB-1311	1Mx1M	560g/m ²	0.56mm
	FWB-1312	1Mx2M	800g/m ²	0.95mm
Neoprene Coated Texturized Fiberglass Welding Blanket	FWB-1313	2Mx2M	1015g/m ²	1.2mm
	FWB-1314		1250g/m ²	1.4mm

Acrylic Coated Welding Blanket AC				
Description	Code	Size	Weight	Thick ness
Acrylic Coated Fiberglass Welding Blanket	FWB-1315	1Mx1M	450g/m ²	0.48mm
	FWB-1316	1Mx2M	620g/m ²	0.8mm
Acrylic Coated Texturized Fiberglass Welding Blanket	FWB-1317	2Mx2M	865g/m ²	1.05mm

Polyurethane Coated Welding Blanket PU				
Description	Code	Size	Weight	Thick ness
Polyurethane Coated Fiberglass Welding Blanket	FWB-1318	1Mx1M	450g/m ²	0.45mm
	FWB-1319	1Mx2M	470g/m ²	0.47mm
	FWB-1320	2Mx2M	690g/m ²	0.73mm
	FWB-1321		720g/m ²	0.76mm

Soak High Temperature Resistant Liquor Welding Blanket GWC				
Description	Code	Size	Weight	Thick ness
Fiberglass Soak High Temperature Resistant Liquor Welding Blanket	FWB-1322	1Mx1M 1Mx2M 2Mx2M	660g/m ²	0.65mm
Texturized Fiberglass Soak High Temperature Resistant Liquor Welding Blanket	FWB-1323		815g/m ²	1mm
	FWB-1324		1050g/m ²	1.5mm
	FWB-1325		1250g/m ²	2mm

High Silica Welding Blanket Sil				
Description	Code	Size	Weight	Thick ness
High Silica Welding Blanket	FWB-1326	0.9Mx1M	600g/m ²	0.6mm
	FWB-1327	0.9Mx2M	1200g/m ²	1.4mm

Ceramic Fiber Textiles

Ceramic fiber textiles contain the rope, tape, yarn and cloth. Fenhar® ceramic fiber textiles are woven or braided from yarn consisting of refractory ceramic fiber with approximately 20% organic fiber. Inserted materials are reinforced into the yarn to increase the tensile strength of fibers. Alloy wire inserts are available for obtaining maximum strength at high temperatures. Glass filament inserts are used in applications where electrical resistance is required, Fenhar® ceramic fiber textiles have been a workable insulation materials for thermal gaskets and wrapping, its unique functions and features are gaining more popularity in the high temperature insulations.

Categories of Textiles

Yarn, Cloth, Square braided rope
Round braided rope , Twisted rope , Tape, Sleeve

Features

Low thermal conductivity
Low heat storage
Reduces fume emission around refractory
Excellent thermal shock resistance
Resistance to gas velocity
Easy to install
Adheres to most ceramic and metallic surface
Excellent corrosion resistance
Impermeable to molten aluminum, zinc, copper&lead
Asbestos free



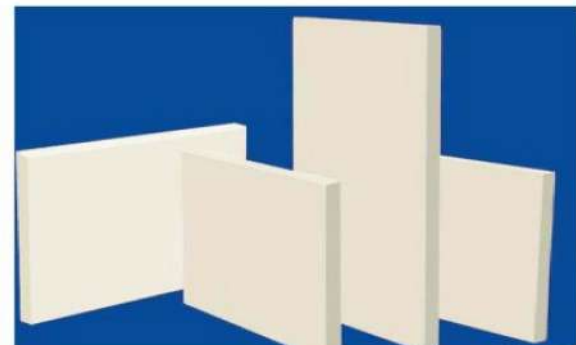
Typical Applications

Gasket and wrapping material
Cable and wire insulation
Welding curtains and blankets
Furnace curtains&heat zone separators
Fuel line insulation
Expansion joints
High temperature seals and packing in furnaces
Door seals for stoves and ovens
Thermally insulating pipe wrap
Kiln car seals

Specifications:

Description	GF-Yarn	SS-Yarn	GF Cloth	SS Cloth	GF Tape	SS Tape
Density (kg/m ³)	500	500	500	500	500	500
Classification Temperature(°C)	1260					
Working Temperature (°C)	500-600	1000	500-600	1000	500-600	1000
Water Content (%)	≤1					
Organics content (%)	≤15					
Reinforced material	GF	SS	GF	SS	GF	SS
GF: Glass Filament, SS:Stainless Steel						

Description	GF-R-Rope	SS-R-Rope	GF-T-Rope	SS-T-Rope	GF-S-Rope	SS-S-Rope
Density (kg/m ³)	500	500	500	500	500	500
Classification Temperature(°C)	1260					
Working Temperature (°C)	500-600	1000	500-600	1000	500-600	1000
Water Content (%)	≤1					
Organics content (%)	≤15					
Reinforced material	GF	SS	GF	SS	GF	SS
R-Rope: Round Braided Rope, T-Rope: Twisted Rope, S-Rope: square braided rope						



Ceramic Fiber Blanket

Fenhar® ceramic fiber blanket presents unparalleled refractories and thermal insulation due to its long spun fiber needling technique, these blankets offer superior insulating performance, flexibility and resilience. Fenhar® ceramic fiber blanket products are unaffected by most chemicals (except hydrofluoric & phosphoric acids and concentrated alkali). Thermal and physical properties are retained after drying following wetting by oil, steam or water. Fenhar® ceramic fiber blanket products are completely inorganic, so there are no fumes when heating for the first time.

Features

High tensile strength and Low shrinkage
Good resiliency with low heat storage
Low thermal conductivity
Thermal shock resistance
Good sound absorption



Typical Applications

Annealing furnaces
Furnace door linings and seals
Soaking pit covers and seals
Furnace hot face repairs
Reheating furnace and ladle covers

Specifications:

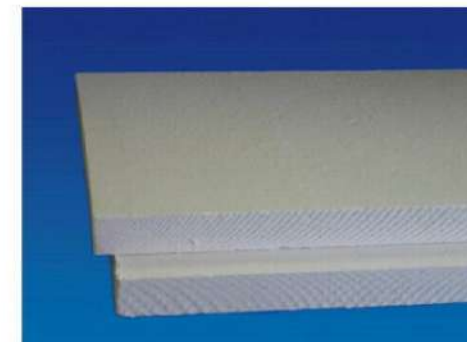
Description	STD RCF Blanket		HA RCF Blanket			HZ RCF Blanket		
Chemical Composition (%)								
Al2O3	≥44		≥55			≥34		
SiO2	≥52		≥44			≥50		
Fe2O3+ TiO2	≤1		≤0.5			≤0.5		
ZrO2	-		-			≥15		
K2O+Na2O	≤1		≤0.2			≤0.2		
Physical Properties								
Density (kg/m3)	96	128	96	128	160	96	128	160
Classification Temperature (℃)	1260		1350			1430		
Fiber Diameter (um)	3.5		3.5			3.5		
Shot Content (%)	≤15		≤13			≤12		
Linear Shrinkage after heating (%)	1000℃*24h≤2.5		1100℃*24h≤2.5			1350℃*24h≤3.5		
Tensile Strength (Mpa)	0.04	0.05	0.05	0.06	0.075	0.05	0.06	0.075
Thermal Conductivity (W/m.k)								
500℃	0.119	0.123	0.155	0.46	0.35	0.179	0.153	0.149

Ceramic Fiber Board

Fenhar® ceramic fiber board is manufactured and designed for the thermal applications requesting high demands on rigidity, the thermal insulation properties and abrasion resistance of ceramic fiber board have been further improved due to the higher density. Ceramic fiber board is a vacuum formed product that resists higher gas velocities than ceramic fiber blanket.

Features

High rigidity and light weight
Low thermal conductivity
Resistance to thermal shock and gas erosion
Easy cutting and engineering, mechanical flexibility
Resists penetration by molten aluminum and other non-ferrous metals.



Typical Applications

Refractory lining for industrial furnaces
Combustion chamber liner, boilers and heaters
Back-up insulation for monolithic refractories
Transfer of non-ferrous metals
Expansion joint boards

Specifications:

Description	STD RCF Board			HP RCF Board			HZ RCF Board		
Density (kg/m3)	280	300	320	280	300	320	280	300	320
Classification Temperature (°C)	1260			1260			1430		
Maximum Operating Temperature (°C)	1100			1200			1350		
Moisture Content (%)	≤1			≤1			≤1		
Linear Shrinkage after heating (%)	1000℃*24h≤2.5			1100℃*24h≤2.5			1200℃*24h≤2.5		
Cold Crushing Strength (MPa)	0.2 0.12			0.2 0.12			0.2 0.12		
Loss of Ignition (wt%)	≤7			≤7			≤7		
Thermal Conductivity (W/m.k)									
200℃	0.074			0.055			0.078		
400℃	0.092			0.073			0.102		
500℃	0.103			0.086			0.116		
600℃	0.127			0.105			0.135		



High Silica Product

High silica is inorganic fiber that contents more than 96% of SiO₂. It is resistant to high temperature, soft point nearly 1700°C, long term service temperature at 900°C, it can work 10 minutes at 1450°C and keeps good state at 1600°C of 15 seconds. For its properties of chemical stability, high temperature resistance and ablation resistance, it is widely used in aviation and aerospace, metallurgy, chemical, building material and fire fighting industry, etc. The strength of our silica fiber made from Na₂O-B₂O₃-SiO₂ system glass is 3~5 times higher than that from E glass. Our silica fiber products are available in forms of needed mat, fabric, scrim, staple yarn, chopped strand cord and so on.

Features:

- SiO₂ ≥ 96%
- Soft point nearly 1700°C, long period service at 900°C
- Low thermal conductivity
- Good chemical stability
- Good electrical insulation
- Low thermal shrinkage
- Non-asbestos product without pollution
- Good process performance



Application:

- Filter for molten metal
- Electricity insulation material
- Protective material for welding
- Distinguisher, filtration of vehicle
- Fireproof material
- High temperature ablation resistant material
- High temperature resistant, insulation and sealing material

High Silica Yarn

High silica fiber staple yarn, chopped strand. Staple yarn is the yarn with certain length used for reinforcing phenolic resin and forming ablation resistant blocks. Silica fiber chopped strand is chopped from silica fiber staple yarn and used for silica fiberglass needed mat. The length and twist by customer's order. Package: 5KGS plastic bag, 20KGS per case



Specifications:

Product Code	Description	Standard
FHSY 7-85S 120	Loss of Ignition (wt%)	≤ 3
	SiO ₂ Content (%)	≥ 96
	Linear Density (Tex)	85±15
	Breaking Strength (N)	≥ 4
	Length (mm)	950±150
Execute standard: GJB 1679-93 silica fiber specification		

High Silica Fabric

High silica fiber fabric has properties of high strength, easy to process, widely application, used for high temperature, insulation, sealing and ablation resistant material. The thickness is 0.1~1.5mm; weave in plain or satin, coating is available by customer's order.



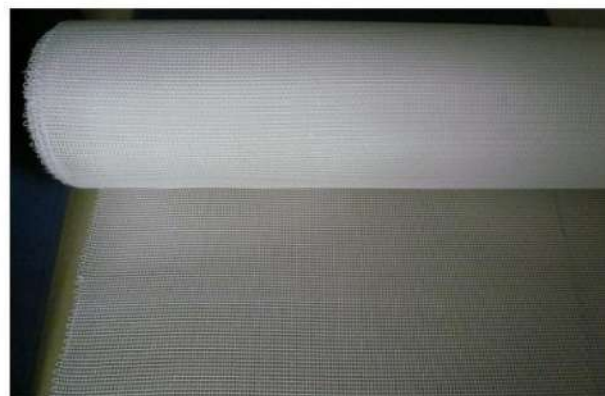
Specifications:

Product Code	Thickness mm	Width cm	Weight g/m2	Breaking Strength N/25 x100mm		SiO2 Content %	Loss of Ignition %	Weave
				Warp	Weft			
FHSC 100-82	0.1±0.01	82~100	87±10	≥70	≥50	≥96	≤3	Plain
FHSC 260-82	0.26±0.026	82~100	240±20	≥290	≥190	≥96	≤3	Plain
FHSC 760-86	0.76±0.08	82~100	680±70	≥900	≥650	≥96	≤3	Satin
FHSC 1260-86	1.26±0.13	82~100	1150±70	≥1200	≥800	≥96	≤3	Satin

FHSC 260-82 fabric abide by standard of GJB1873-94 silica fiber fabric specification

High Silica Scrim

Silica fiber scrim are the base material for foundry filtration. The filtration has good properties of high temperature resistant, scour resistance, low gas evolution, easy to use and economic. It is suitable for grey cast iron, nodular cast iron and small size cast steel casting filtration. Sheet size: standard size 300x150mm. Max size: 1000x800mm. Non-standard size is available by order.



Specifications:

Product Code	Mesh mm	Width cm	Weight g/m2	Breaking Strength N/25 x100mm		SiO2 Content %	Porosity %	Weave
				Warp	Weft			
FHSS 1.5x1.5-83	1.5x1.5	83±3	135±14	≥90	≥80	≥96	55	Leno
FHSS 2x2-83	2.0x2.0	83±3	125±13	≥85	≥70	≥96	65	Leno
FHSS 2.5x2.5-83	2.5x2.5	83±3	110±11	≥68	≥62	≥96	70	Leno
FHSS 1.5x1.5-83M	1.5x1.5	83±3	380±38	≥300	≥250	≥96	19	Mock Leno
FHSS 2x2-83M	2.0x2.0	83±3	350±35	≥250	≥200	≥96	24	Mock Leno
FHSS 2.5x2.5-83M	2.5x2.5	83±3	310±31	≥200	≥150	≥96	33	Mock Leno

