

HIGH PERFORMANCE FILTER FABRIC



# SMCC Filter Fabric

**Qingdao Star Machine China**  
Leading manufacturer of filter fabric

Website: [www.industryfilters.com](http://www.industryfilters.com)

Email: [info@industryfilters.com](mailto:info@industryfilters.com)

At Qingdao Star Machine, we offer customized filtration solutions with high-quality filter fabrics. Our team provides excellent pre-sale and after-sale services to ensure a seamless experience. Choose us for the perfect filtration solution today!



# Company Introduction

Welcome to Qingdao Star Machine, your go-to destination for top-quality filter fabrics and bags! We are a dedicated manufacturer in the filtration industry, specializing in providing a wide range of high-quality filter fabrics and bags that can be customized to meet your specific requirements.

Our products are not only of superior quality but also cost-effective, offering enhanced performance for your filtration systems. By choosing our filter bags, you are ensuring optimal protection and efficiency for your operations, while also contributing to a cleaner and healthier environment.

Our filter fabrics and bags are crafted using premium materials and can be customized with options for heat-sealed closures or triple-needle stitched finishes to meet your exact specifications. If you are interested in our products, or would like to request complimentary samples, please feel free to contact us via email:

[info@industryfilters.com](mailto:info@industryfilters.com).



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# Polypropylene Filter Cloth

This series of filter cloth products are woven with polypropylene fibre, which is divided into three categories: staple fibre, filament and monofilament. The products are acid-resistant, alkali-resistant, light in specific gravity, and the normal operating temperature is <math>90^{\circ}\text{C}</math>. The polypropylene long-fibre filter cloth has smooth surface and good air permeability, which is suitable for powder filtration. There are more than 80 varieties of polypropylene long-fibre filter cloths in our company, and we can change the pattern, density and weaving method according to the requirements. The products are widely used in plate and frame filter presses, belt filters and other equipments with strong alkalinity in dyestuff and chemical industry, sugar industry, pharmaceutical industry, alumina industry and so on. The filtration precision of this series of filter cloth can reach below 1 micron.

Model	Tensile strength	Warp and Weft Density	Thickness	Weight	Air Permeability	Fabric Organisation
	(N/5*20cm)	(number/10cm)	(mm)	(g/m <sup>2</sup> )	L/m <sup>2</sup> .s	
521	2608/2050	214.8/150.8	0.79	302.7	216.5	twill
522	2104/1633	244/173	0.41	155	73.44	plain
534	2501/1894	193.6/100.0	0.99	368.1	41.2	plain
4212 短纤	2672/1342	236.4/123.2	1.34	389.4	85.6	twill
700A	3426.6/2819.4	204/106	0.7	350	117.9	plain
700B	4648.0/2866.6	188/114	0.59	280	254.2	twill
700AB	6865.4/416.7	378/235	1.15	580	82	twill+plain
750A (840A)	4466/2905	168/131	0.85	330	42	plain
750B (840B)	5234/3489.	256/141	0.99	420	76	twill
750AB (840AB)	6718/5421	333.8/204.4	1.36	489.9	24.5	plain
840-1	5275/3948	252/146	0.9	440	45.5	twill
840-2	5928/4086	283/142	1	490	40.7	twill
840-3	6282/4858	311/134	1.1	520	27.2	twill
858	4418/3618	251/124	0.88	380	240.7	twill
4218	8568/5427	456/94	1.32	660	38.4	twill
4135	6797/2508	346/83	1.02	510	19.12	plain
4422	2643/1514	181/94	1.18	480	17.86	twill
1000A	5585.7/4089.2	204/102	0.85	435	9.83	plain
1000B	6636/1481	204/110	0.79	430	21.49	twill
1500-1	56283701	251118	1.42	725	29.38	twill
108B	8721/4642	503/133	1.1	600	13.6	twill
108C	8367/4797	504/177	1.03	600	22.96	satin



# Polyester Filter Cloth

This series of filter cloth products are woven with polyester fibre, divided into three categories: staple, filament and monofilament. The products are acid-resistant, weak alkali resistant, and the normal operating temperature is <130°C. The polyester long-fibre filter cloth woven by the company is made through the splicing of loose filaments, which enhances the Tensile strength of the fabric. It has smooth surface, better abrasion resistance and better air permeability. Polyester filter cloth products are mainly used in plate and frame filter presses, centrifuges, vacuum suction filtration and other equipment, widely used in metallurgy, chemical industry, medicine, fertiliser and other industries, the filtration precision of this series of filter cloth products can be as small as 5 microns or less.

Material	Model	Tensile strength	Warp and Weft Density	Thickness	Weight	Air Permeability	Fabric Organisation
		(N/5*20cm)	(number/10cm)	(mm)	(g/m <sup>2</sup> )	L/m <sup>2</sup> .s	
PE long fiber	60-8 (130)	1363/111.6	260.0/221.6	0.27	125.6	130.6	plain
	60-10 (240)	2508/958.0	225.6/156.0	0.42	219.47	36.1	plain
	60-9 (260)	2202/1776	205.6/160.8	0.47	257	32.4	plain
	60-7 (621)	3026/2288	191.2/134.0	0.65	342.4	37.8	plain
PE short fiber	5926 (120-7)	4498/4044	260/202	1.42	610	54	twill
	734 (120-12)	2072/1633	232/166	0.62	245	480	twill
	745 (120-13)	1936/730	232/196	0.48	210	125	plain
	747 (120-14)	2026/1485	226/158	0.53	248	120	plain
	758 (120-15)	2594/1909	194/134	0.73	330	100	plain
	3927 (120-16)	4598/3154	156/106	0.9	524	18	plain
	728 (120-17)	2753/1869	246/310	0.89	360	180	twill
	729	3180/2157	307/201	0.72	315	120	satin
	208	2788/1930	360/276	1.43	400	280	twill
822	5760/3480	260/102	1.65	940	22	twill	



# Nylon Filter Cloth

This series of filter cloth products are woven with nylon fibre, divided into filament and monofilament two categories. The products are alkali resistant and weak acid resistant. High strength and good abrasion resistance. Normal operating temperature <math>< 130^{\circ}\text{C}</math>. The fibres of this series of filter cloth are divided into two types: nylon 6 and nylon 66. Nylon 66 has better performance than Nylon 6, which is toxic and cannot be used in food industry. The products are mainly used in alkaline plate and frame filter press, disc filter and skeleton material of rubber industry in chemical, coal, metallurgy and other industries. The filtration precision of this series of filter cloth products can reach below 5 microns.

Model	Tensile strength	Warp and Weft Density	Thickness	Weight	Air Permeability	Fabric Organisation
	(N/5*20cm)	(number/10cm)	(mm)	(g/m <sup>2</sup> )	L/m <sup>2</sup> .s	
407	1913 / 1539	240.8/187.2	0.42	195.4	29.7	plain
663	2390 / 2202	236/156	0.58	300	23	plain
601	3410.75/ 3365	132.0/160.8	0.49	315	125	plain
301	2016 / 1981	275.0/250.0	0.22	106.8	114.4	plain

# Vylon Filter Cloth

This series of filter cloth products are woven with Vylon fibre, currently only a class of short-fibre filter cloth. The products are alkali resistant, not acid resistant. The extension is small and the moisture-absorbing property is good. The durability is 1-2 times that of cotton, and the recommended continuous use temperature is <math>< 100^{\circ}\text{C}</math>. Mainly used in ceramic factories, pharmaceutical factories, foodstuffs, metallurgy and other industries with strong alkaline filter plate and frame filter press, as well as the rubber industry skeleton and covering materials.

Model	Tensile strength	Warp and Weft Density	Thickness	Weight	Air Permeability	Fabric Organisation
	(N/5*20cm)	(number/10cm)	(mm)	(g/m <sup>2</sup> )	L/m <sup>2</sup> .s	
295-1A	4302.2 / 2138.4	100.0/64.6	1.56	555.8	43.7	plain
295-102	1706 / 1556	188/141	0.71	360	29	plain
295-104	1591 / 1141	232.4/164	0.58	246.9	40.5	plain
295-1	2410/ 2630	157/110	0.95	50.8	15	plain



# Cotton Canvas

This series of cotton canvas material: cotton 21 count yarn, 16 count yarn, 10 count yarn. Because of the short fibre, it has good performance in trapping particles. Abrasion resistance and tensile strength are reduced when encountering hot dilute acid and cold concentrated acid, abrasion resistance and tensile strength are reduced, easy to corrode. The use temperature does not exceed 100°C. This series of cotton canvas is used in chemical factory, dyestuff, sugar factory, rubber, oil extraction, paint, metallurgy, automobile, rain cloth and other industries.

Size	Warp and Weft Density	Size	Warp and Weft Density
10/7*8	29*19	21/10*10	32*21
10/6*6		21/8*8	36*25.5
10/5*6	32*23	21/6*6	39*26
10/4*4	36*25.5	21/4*4	44*36
10/3*3	39*26	21/3*3	
10/2*3		21/2*2	51*40
10/2*2	42*30	21/2+2*3	80*29
10/2*1	42*39	21/3+3*4	70*26



# Nonwoven Filter Cloth

Non-woven filter cloth is divided into polyester and polypropylene according to different materials. After needle punching, combing sandwich composite into cloth, with three-dimensional structure. After heat-setting, sintering and surface treatment with chemical oil, the filter cloth has smooth appearance, good product density and air permeability. Practice has proved that it is more effective to be used in plate and frame filter press. The filter cake is easy to detach, easy to wash, and has better economic use value. It is widely used in dyestuff factory, iron and steel factory, brewery, etc. The filtration precision can be up to less than 1 micron. Users can customise the filter cloth according to the filtration precision and air permeability.

Material- filtration accuracy	Thickness	Air Permeability	Tensile strength	
			Warp	Weft
PP(PET)-01	3.5	10	1000	1500
PP(PET)-05	2.5	20	500	1000
PP(PET)-10	2.2	24	500	1000
PP(PET)-25	3	35	500	1000
PP(PET)-50	3.5	100	500	600
PP(PET)-75	3.5	130	500	600
PP(PET)-100	3.8	100	500	500
PP(PET)-200	3.8	100	500	600



# Monofilament Filter Cloth

**Material:** nylon, polyester, polypropylene and PTFE. Nylon and polypropylene are mainly used.

**Performance:** high filtration efficiency, good air permeability, easy to clean, high strength, service life is 10 times that of general fabrics, high stability and not easy to be deformed after heat-setting treatment or rolling pressure treatment. The highest filtration precision can reach 0.005  $\mu$  m.

**Process:** Heavy duty rapier loom weaving, single layer weaving, double layer weaving, three layer weaving, etc.

**Application:** For alumina, phosphate fertilizer industry, cement, smelting, chemical industry, chemical fibre and other continuous production environment, non-ferrous metals such as zinc oxide, cobalt oxide, alumina, potash, nickel and cobalt ores, manganese ore and other mineral smelting, dyestuffs and chemical industry, coal mining, potash, rare earths and other non-metallic mineral industry, suitable for belt filters, vacuum rotary drum machine, (flat plate, rotary table, vertical disc) type filters, leaf filters, candle type filters, Closed filters, presses and other equipment.

Model	Material	Weaving	Weight	Density/10cm		Thickness	Tensile strength N/5*20cm		Elongation rate%		Air Permeability
			(g/m <sup>2</sup> )	Warp	Weft	MM	Warp	Weft	Warp	Weft	L/m <sup>2</sup> .s
1015	Monofilament PP	plain	145	1100	212	0.25	1196.5	760	22.7	16.7	465
1022	Monofilament PP	satin	225	413	196	0.45	2663.5	775	21.83	23.4	870
1650	Monofilament PP	plain	280	63	63	1.15	2686	3300	26.8	12.1	4445.5
1816	Monofilament PP	satin	220	787	283	0.55	2595	1125	36.17	34.47	1843
1820	Monofilament PP	twill	390	756	299	0.6	6541.5	2615	22.47	15.93	143
2020	Monofilament PP	twill	420	881	378	0.78	4493.5	2623.5	28.3	30.07	173.2
2016	Monofilament PP	satin	290	850	157	0.48	2268.6	2771.4	24.6	29.73	88.4
2570	Monofilament PP	satin	330	425	110	0.53	3732	2402	14.17	28.37	118.3
2042	Monofilament PP	twill	330	610	189	0.48	4075	1561	34.07	27	158.9
2814	Monofilament PP	satin	270	1197	393	0.4	3110.6	1447.4	20.47	17.67	38.46
2815	Monofilament PP	Heavy twill	270	1133	441	0.5	3542	1770	20.1	17.5	228.5
2816	Monofilament PP	satin	320	1141	323	0.52	4011.75	2440	19.9	18.13	66.17



3038	Monofilament PP	twill	280	118	110	0.89	2412.7	1877.3	29.47	22.13	54.5
4838	Monofilament PP	twill	460	190	157	1.01	5223.5	3603.5	24.63	20.83	1311
6030	Monofilament PP	twill	255	252	103	0.49	2233.4	893.4	10.07	11.13	1064.75
1216	Monofilament PE	plain	150	492	204	0.3	1220	842	29.17	17.03	530.3
1521	Monofilament PE	satin	390	590	157	0.66	4216.5	1445	26.4	24.17	1956.5
1017	Monofilament Nylon	twill	190	409	291	0.45	1736.3	1056	29.67	15.83	4263.5
1417	Monofilament Nylon	satin	335	551	150	0.59	3882	1356.6	33.27	33.27	1292.6
1420	Monofilament Nylon	satin	310	551	204	0.5	2864.6	1270.6	31.9	25.37	734
1666	Monofilament Nylon	satin	400	649	196	0.75	3620	1403.5	36.17	27.13	2128.5
4917	Monofilament Nylon	plain	130	205	188	0.41	1483.5	1288.5	31.27	24.8	7321
6347	Monofilament Nylon	satin	310	472	204	0.5	2546.75	1773.25	29.13	21.67	949.28
1120	Monofilament Nylon	satin	370	472	212	0.53	2342.25	1763.25	28.57	21.17	531



# Teflon high temperature resistant cloth

Teflon high temperature cloth is called PTFE coated glass fibre cloth, which is made of suspended PTFE (commonly known as plastic king) emulsion and impregnated with high performance glass fibre. It is a high-performance, multi-purpose composite material new products. Because of its excellent performance, it is widely used in aviation, papermaking, food, environmental protection, clothing, chemical, glass, medicine, electronics, insulation, construction machinery and other fields.

## Teflon high temperature cloth performance characteristics:

- 1、 Low temperature  $-140^{\circ}\text{C}$ ---high temperature  $300^{\circ}\text{C}$ , weather resistant.
- 2, non-adhesive, not easy to adhere to any substance.
- 3, chemical resistance, resistant to strong acid, strong alkali, aqua regia and various organic solvents.
- 4、 Low coefficient of friction, high insulating properties, anti-ultraviolet, anti-static, fire retardant.
- 5, good dimensional stability, high strength, with good mechanical properties.

## Teflon high temperature cloth application:

- 1、 Conveyor belt, food conveyor belt, drying machinery conveyor belt; anti-adhesive lining, gasket, cloth, adhesive tape, sealing tape, etc.;
- 2, plastic products welding, welding sealing with welding cloth, lining tape;
- 3、 Anti-corrosive wrapping compound for petrochemical pipeline, environmental protection desulphurisation of power plant waste gas, etc.:
- 4、 High insulation materials for electrical, solar cell module layer cloth: spacer, gasket, liner ring; can be added to work anti-static cloth.
- 5、 Modern building membrane material, pressure sensitive adhesive tape base cloth, printed plastic floor lining.
- 6、 Heat-resistant cladding, food gasket, microwave drying tape;

Main specifications of Teflon high temperature cloth:

Thickness: 0.08MM~1.2MM

Base cloth organisation: plain, twill, satin, etc;

Colour: brown, white, black, silver pink;

Coating: double-sided coating, single-sided coating, breathable coating, anti-static coating



款号 Item No	颜色 Color	厚度 Thickness	最大宽度 Max width	克重 weight	抗拉强度 Tensile strength	耐温范围 Temperature
HC-08C	Coffee	0.08MM	1250MM	165g/m <sup>2</sup>	550/450N/5CM	-140~260℃
HC-08BJ	Black	0.08MM	1250MM	170g/m <sup>2</sup>	550/450N/5CM	-140~260℃
HC-08Y	Sliver Pink	0.08MM	1250MM	185g/m <sup>2</sup>	550/450N/5CM	-140~260℃
HC-13AJ	Coffee	0.13MM	1250MM	260g/m <sup>2</sup>	1100/1000N/5CM	-140~260℃
HC-13BJ	Black	0.13MM	1250MM	275g/m <sup>2</sup>	1100/1000N/5CM	-140~260℃
HC-13Y	Sliver Pink	0.13MM	1250MM	290g/m <sup>2</sup>	1100/1000N/5CM	-140~260℃
HC-15AJ	Coffee	0.15MM	1250MM	380g/m <sup>2</sup>	1200/1000N/5CM	-140~260℃
HC-18AJ	Coffee	0.18MM	1250MM	395g/m <sup>2</sup>	1800/1700N/5CM	-140~260℃
HC-18BJ	Black	0.18MM	1250MM	415g/m <sup>2</sup>	1800/1700N/5CM	-140~260℃
HC-25AJ	Coffee	0.25MM	2800MM	490g/m <sup>2</sup>	2100/1800N/5CM	-140~260℃
HC-25BJ	Black	0.25MM	2800MM	510g/m <sup>2</sup>	2100/1800N/5CM	-140~260℃
HC-35AJ	Coffee	0.35MM	3200MM	660g/m <sup>2</sup>	2600/2300N/5CM	-140~260℃
HC-35BJ	Black	0.35MM	3200MM	680g/m <sup>2</sup>	2600/2300N/5CM	-140~260℃
HC-40AJ	Cream	0.4MM	3500MM	780g/m <sup>2</sup>	3000/2500N/5CM	-140~260℃
HC-40BJ	Black	0.4MM	3500MM	820g/m <sup>2</sup>	3000/2500N/5CM	-140~260℃
HC-65AJ	Cream	0.65MM	4000MM	1150g/m <sup>2</sup>	4400/4000N/5CM	-140~260℃
HC-90AJ	Cream	0.9MM	4000MM	1550g/m <sup>2</sup>	6000/5000N/5CM	-140~260℃
HC-90BJ	Black	0.9MM	4000MM	1650g/m <sup>2</sup>	6000/5000N/5CM	-140~260℃

Note: According to different application requirements, we can produce different grades of Teflon high temperature resistant welding fabrics, such as:

- 1、 Ordinary industrial grade: This grade fabric has good heat resistance, anti-corrosion, non-stick performance, used in various industrial fields.
- 2、 Standard grade: It is produced by imported materials, besides anti-corrosion and heat-resistant, the surface is smoother, flatter, and has good non-adhesive properties.
- 3、 Food Grade: Smooth and flat surface, good anti-adhesive performance, good heat resistance, easy to clean, safer in the food industry.
- 4、 Anti-static grade (anti-static cloth): processed through a special process, with anti-static properties to meet specific requirements.