

Ecofiltra

Cloths & Fabricated
Parts for Solid/
Liquid Separation

—SAATI

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Engage with SAATI





Company Information

Over Eighty Years of Innovative Action

SAATI is a multinational group with corporate headquarters that have been situated in northern Italy since 1935.

Today we are a leader in the development, manufacturing and commercialization of advanced technical textiles & chemicals.

SAATI's passion and creativity are the foundation for an unsurpassed tradition of continuous innovation in the filtration markets. This endless pursuit is what drives SAATI's dedicated customer-centric R&D to functionalize products beyond simple filtration.

SAATI's wide range of synthetic textiles and fabricated parts in Nylon, Polyester, Polypropylene, PEEK and PPS are the ideal engineered solution for demanding process filtration applications.

Through specialized processing and rigorous inspection,

SAATI ensures consistent lot quality across tolerances, uniformity, strength, stability, and cleanliness that satisfy diverse industrial customers.

Perfecting the Art of Precision Woven Fabrics with Innovation Driven R&D and Strict Quality Controls

Ecofiltra is SAATI's dedicated line for the liquid/solid separation industry, manufactured in accordance with ISO 9001:2000 as well as with Regulations CE 1935/2004 and EU 10/2011.

Ecofiltra includes a selection of fabric types that are in compliance with FDA Code of Federal Regulations.

To guarantee the reliability of our products we constantly run tests and have all the most updated and strict certifications that validate the consistency, performance, quality and characteristics of each item.

With about 1,000 employees worldwide, facilities and a strong, established track record in innovation and manufacturing excellence, our mission is to improve the life of every person every day, through working with customers and partners to create a safer, healthier and cleaner world.



Customer Focus

Customer Driven Innovation

Thanks to our direct presence in many countries, it is easy for customers to reach us, wherever they are located, and our response is always prompt. Our staff has a high level of technical expertise and dedication, and are always aiming to find the best solution for the customer's requirements.

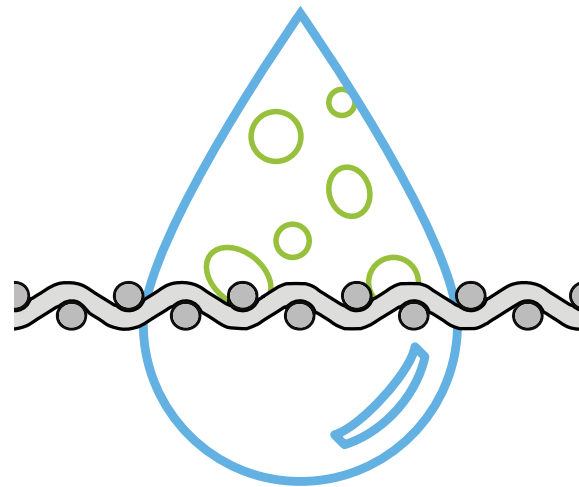
SAATI sales representatives and engineers understand customers' applications, and work closely with staff in the production and R&D departments to offer a customized solution in a form that best meets their needs.

The quality of SAATI's medical products is backed by the dedication and expertise of SAATI's customer service. Thanks to offices, warehouses, storage and fabrication facilities throughout the world, SAATI provides strong local support, expert responses to customer inquiries, strong engineering capability, technical support and fast delivery around the world.

SAATI Ecofiltra

Ecofiltra Fabrics Key Features

- Monofilament, multifilament and staple yarns woven fabrics
- Products Available in synthetic (PP - PES - MAR - PA 6.6/10/11/12- PPS - PEEK - PVDF - PBT - PVDC) fibers
- Consistent fabrication tolerances
- Excellent strength and dimensional stability
- High resistance to mechanical stress, abrasion, chemical agents and corrosion
- Lot-to-lot consistency
- Improved durability
- Food approved where applicable



Compliance of Ecofiltra Mesh Intended to Come into Contact with Food

Compliance of Composition:

Monofilament yarn polymer is in compliance with FDA Code of Federal Regulations (USA), Food and Drugs, Title 21, Part 177 Paragraph 177.1500 and 177.1420 (Indirect food additions: Polymers).



Compliance of Performance:

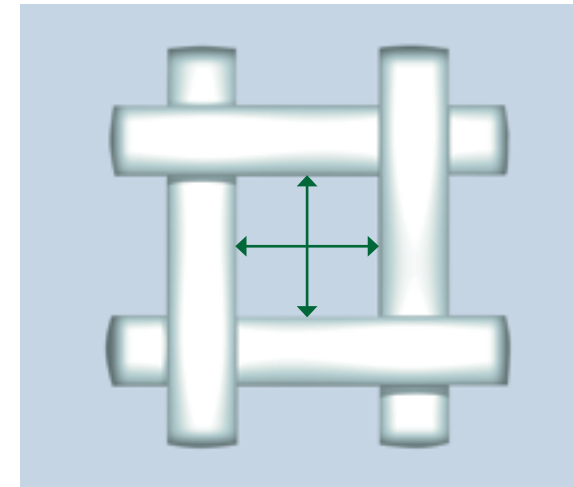
Compliance with Regulations 1935/2004/CE & EU 10/2011

Specifically SAATI ensures full traceability throughout the production chain, from raw material to finished products vs. Customer. Mesh is tested in order to verify migration limits as per regulatories concerning plastic materials intended to come in contact with food.

The processes of SAATI are conducted in compliance with specific GMP.

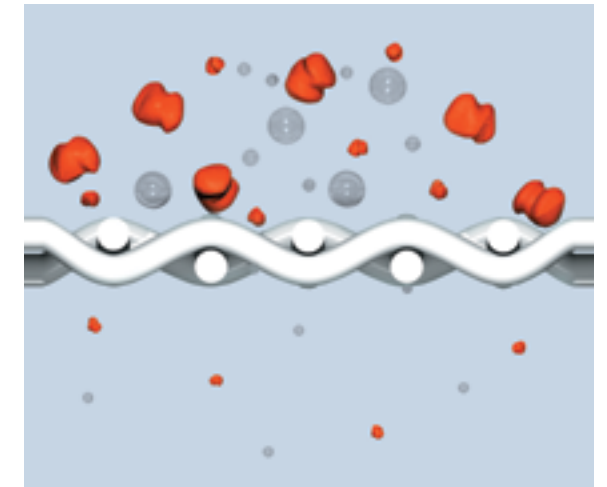
Ecofiltra Fabrics

The Industry Standard for Process Filtration Applications



Precise Mesh Opening

The Mesh Opening is the square space between two warp and weft yarns



High flow rates with low pressure loss



Monofilament Mesh

These are single filaments extruded from molten polymer through a specially engineered dye, and then drawn through a series of rollers to orientate the molecules and thus provide the thread with the desired stress-strain characteristics. The monofilament fibers are usually round in cross-section although other profiles are possible. The diameter may be as large as 0.8 mm (perhaps larger in special cases) but for most filtration applications they are usually in the range 0.1-0.3 mm.

Fabrics that are produced from monofilaments are characterized by their resistance to blinding, their high throughput and their ability to discharge filter cakes cleanly and efficiently at the end of the filtration cycle. However, in critical filtration applications, where the particle size is extremely small and where maximum filtration clarity is required, they do not always provide the necessary retention efficiency, even when tightly oriented into a tightly woven construction and subjected to an intensive calendering operation.

Ecofiltra Fabrics

The Industry Standard for Process Filtration Applications

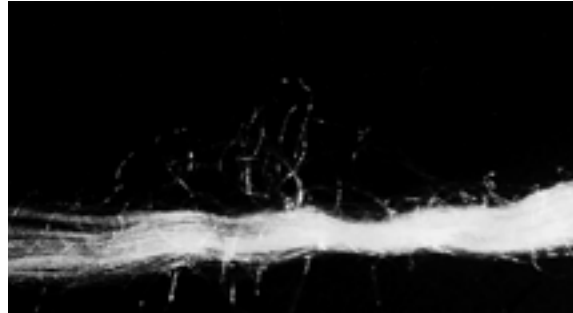


Multifilament Mesh

These are also extruded and orientated in much the same way as monofilaments although in this instance the die or spinneret, as it is known, contains a large number of much smaller apertures. Although the diameter of the individual filaments in this case is usually 0.03mm, the usual practice is to express individual filaments and the collective assembly of filaments, in terms of its linear density, typical units being denier, tex and decitex. Following extrusion, it is common practice to bind the filaments together through a twisting operation. This helps to protect the yarn from abrasion in the weaving process and also in ultimate cloth use.

The same twist also makes the filament slightly stronger, more rigid and, if a high twist level is used, can alleviate the tendency of the yarn and hence the fabric to blind. Even so, multifilament fabrics, while possessing greater collection efficiency, higher strength and greater flexibility than monofilament fabrics are nevertheless more prone to blinding than the latter, especially in processes where crystal growth can be expected.

The weight of fabrics woven from multifilament can vary quite considerably from around 100 gsm to as high as 1000 gsm, the heavier constructions (the actual weight perhaps being influenced by polymer density) being selected from more arduous duties such as vertical automatic filters. As stated previously if, for special purposes, light weight fabrics are required on conventional horizontal filter presses, it is likely that they may require the additional support of backing cloth to prevent premature mechanical damage.



Staple Spun Yarns

These were the first synthetic yarns to be employed on a large scale in industrial filtration, facilitating the production of heavy duty, durable cloths, primarily for use on traditional cast iron plates and leaf filters.

Staple spun yarns are in fact produced from short fibers using spinning technologies, which were developed for the processing of natural fibers such as cotton or wool. After extrusion the fiber length is therefore cut to order 40-100mm depending on which short staple spinning system is employed.

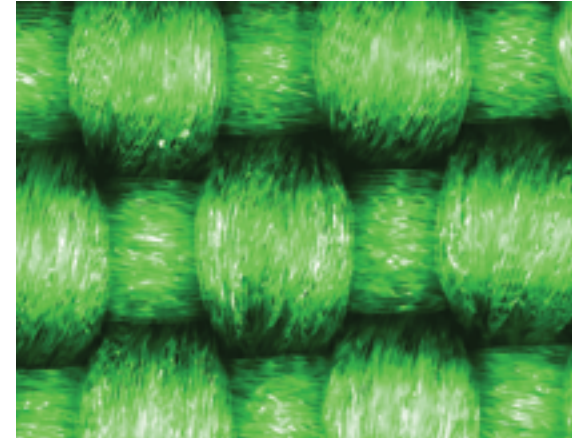
As a general guide, fibers processed on wool spinning systems are more bulky than those processed on cotton systems. As a consequence of this bulk, coupled with the relative ease with which the fibers can move within the yarn assembly, it has been argued that for the separation of non-compressible particles, wool spun yarns provide greater throughput, are more efficient and less prone to blinding than either multifilament yarns processed on the cotton spinning system. On the other hand, as with multifilament yarns, processed resistance is significantly inferior to monofilaments, especially where the separation process involves slimy material or where crystal growth may be expected. Fabrics produced from staple spun yarns are mainly in the region 400-700 gsm, the major uses being in conventional filter press, vacuum leaf, pressure leaf (esp. sugar industry) and rotary drum filters (wired on or caulked in).

Combination Fabrics:

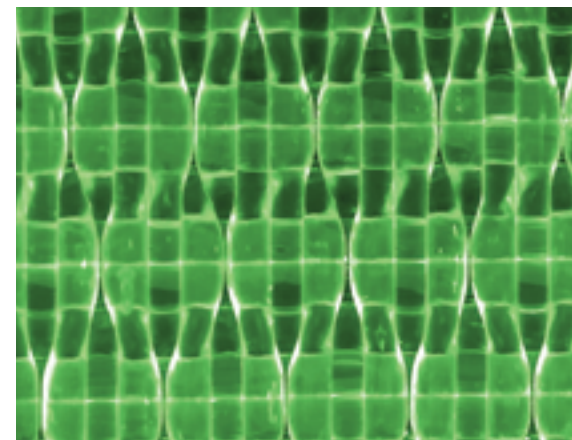
- A) Multifilament warp, staple weft
- B) Monofilament warp, multifilament weft

Ecofiltra Fabrics

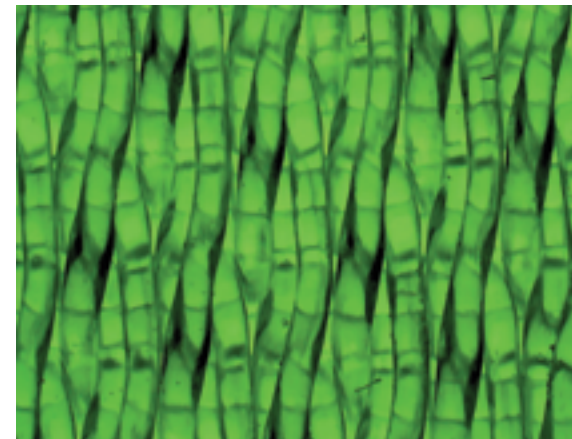
Fabric Weave Types



Plain Weave



Twill Weave



Satin Weave

Plain Weave

This is the most basic fabric construction. It is also the tightest, the most efficient and most rigid of elementary weave patterns and is particularly suited to multifilament or short staple yarns.

Twill Weave

There are numerous variations on the twill weave theme, all of which feature a diagonal pattern running through the fabric. This type of construction it is possible to cram more weft threads per unit length into the fabric, thereby giving the material more bulk. Furthermore, twill weave fabrics are essentially more flexible than those produced by the plain weave as a result of the arrangement of threads. This could be important where difficulties may be encountered in cloth manufactured or indeed in fitting the cloth on the filter.

Satin Weave


Again there are numerous styles of satin weave, the basic concept of which is to produce a smooth surface which, as far as possible, is devoid of the diagonal lines associated with twill weaves. The smooth surface is achieved by interlacing the threads in an orderly manner but as wider intervals than either plain or twill weaves. As a result, a still more flexible fabric is achieved which, by virtue of the thread to thread movement which takes place also helps in preventing the accumulation of particles within the structure. In addition the longer thread "floats" in satin weave also facilitates the insertion of more threads per unit of width. This creates the opportunity for greater smoothness and better cake discharge at the end of filtration cycle. From this it will be appreciated that satin weaves are ideally suited to monofilament yarns. However, unless the threads in both warp and weft directions are woven tightly together, satin weaves are not normally associated with high particle efficiencies. They are suited to cases where good cake discharge is essential. Typical applications are filter presses in effluent treatment process, cement and coal dewatering, and rotary vacuum or disc filters operating eg. in mining or hydro-metallurgical refining industries.

Ecofiltra Fabrics

Polypropylene Specification Chart



Product	Fiber	Yarn	Mesh Count Warp		Mesh Count Weft		Weight		Air Permeability		Weave	Width	Avail-ability
			n/cm	n/in	n/cm	n/in	g/m²	oz/ yd²	l/dm²/ min 200Pa	Cfm/sq.ft - 0.5" WG			
MPP 1325	PP PP	multi multi	13	33	25	64	470	13.9	7	1.5	special	110-142-180-220	• •
MPP 1410	PP PP	multi multi	14	36	10	25	300	8.8	8-12	1.7-2.6	PW	145-180-220	• •
MPP 1811	PP PP	multi multi	18	46	11	28	350	10.3	7	1.5	PW	140-180-220	• •
MPP 2414	PP PP	multi multi	24	61	13	33	440	13	40	8.7	TW	140-220-250	•
MPP 2417	PP PP	multi multi	24	61	17	43	480	14.1	285	62	TW	113	•
MPP 2711	PP PP	multi multi	27	69	11	28	1030	30.4	10	2.2	TW	105-120-170	• •
MPP2817	PP PP	multi multi	26	66	17	43	500	14.7	90	19.6	TW	170	•
MPP 3011	PP PP	multi multi	30	76	11	28	500	14.7	36	7.8	TW	160-230	•
MPP 4015	PP PP	multi multi	40	102	15	38	435	13	15	3.3	TW	110-170-180	• •
MPP 4618	PP PP	multi multi	46	117	18	46	500	14.7	8-30	1.7- 6.5	TW	132	•
MPP 4813	PP PP	multi staple	46	117	13	33	650	19.2	3	0.7	TW	128-160	• •
MPP 4814	PP PP	multi staple	48	122	14	36	500	14.7	4	0.9	TW	170	• •
MPP 6012	PP PP	multi staple	60	152	12	30	620	18.3	3	0.7	special	110-140-180-220	• •
MPP 6812	PP PP	multi staple	64	163	12	30	580	17.1	2	0.4	special	120-130-185	•
MPP 6824	PP PP	multi multi	60	152	25	64	480	14.1	2	0.4	special	140-185	•
PPM 3217	PP PP	mono multi	30	76	17	43	275	8.1	36-60	7.8 -13	satin	180-220	•
PPM 4012	PP PP	mono multi	40	102	12	30	340	10	15-30	3.3- 6.5	satin	140-160-180-220	• •
PPM 4414 white	PP PP	mono multi	41	104	14	36	300	8.8	15-80-100 -200	3.3-17.4 -21.7-43.5	satin	110-140-180-220	• •
PPM 4414	PP PP	mono multi	41	104	14	36	300	8.8	15-80-100 -200	3.3-17.4 -21.7-43.5	satin	110-140-180-220	• •
PPM 4414 AS WEFT	PP + PP K	mono multi	41	104	14	36	300	8.8	15	3.3	satin	180	•
PPM 5513	PP PP	mono multi	55	140	13	33	365	10.8	15 - 30 - 60	3.3-6.5-13	TW	220	•
PPM 9726	PP PP	mono multi	97	246	26	66	450	13.3	10	2.2	satin	178	•
PPM 11524	PP PP	mono multi	118	300	21	53	490	14.4	6	1.3	satin	180	• •
PPM 11524 KSLF	PP PP	mono multi	118	300	21	53	485	14.3	6	1.3	satin	180	• •
PPM 11530	PP PP	mono multi	120	305	28	71	400	11.8	6	1.3	satin	140-180	• •

 Intended to Come
In Contact with Food

Product	Fiber	Yarn	Mesh Count Warp		Mesh Count Weft		Weight		Air Permeability		Weave	Width	Avail-ability
			n/cm	n/in	n/cm	n/in	g/m²	oz/ yd²	l/dm²/ min 200Pa	Cfm/sq.ft - 0.5" WG			
PP 2313 TH	PP PP	mono mono	23	58	13	33	270	8	600	130.4	TW	240	•
PP 2623	PP PP	mono mono	26	66	23	58	335	9.9	400-600-1000	87-130.4 -217.4	TW	160-220	• •
PP 2712	PP PP	mono mono	27	69	12	30	280	8.3	500-1000	108.7 - 217.4	TW	242	•
PP 3617	PP PP	mono mono	36	91	17	43	270	8	600-900	130.4 - 195.6	satin	195-220	• •
PP 3617	PP PP	mono mono	36	91	17	43	260	7.7	375	81.5	TW	160	•
PP 4015	PP PP	mono mono	40	102	15	38	255	7.5	600	130.4	satin	180-220	•
PP 4519	PP PP	mono mono	45	114	19	48	235	6.9	30-130-240	6.5 - 28.3 - 52.2	satin	160-180-220	• •
PP 5525	PP PP	mono mono	55	140	25	64	255	7.5	250	54.3	TW	220	• •
PP 6022	PP PP	mono mono	60	152	22	56	250	7.4	130-360-560	28.3 - 74.9- 121.7	satin	135-220	•
PP 6080	PP PP	mono mono	5.5	14	5.9	15	550	16.2	n.a.	n.a.	basket	135-220	•
PP 7025	PP PP	mono mono	70	178	25	64	165	4.9	n.a	n.a	satin	120	•
PP 7130	PP PP	mono mono	71	180	30	76	185	5.5	400-900	87-195.6	satin	160-220	•
PP 7932	PP PP	mono mono	79	201	32	81	440	13	20-72	4.3 - 15.6	TW	160-220	•
PP 9736	PP PP	mono mono	97	246	36	91	430	12.7	25-72	5.4-15.6	satin	140-178-220	• •
PP 9736 AS	PP/SST PP/SST	mono mono	97	246	36	91	430	12.7	25-72	5.4	satin	165	•
PP 10640	PP PP	mono mono	106	269	40	102	265	7.8	25-80-120-180	5.4- 17.4- 26.1-39.1	satin	140-180-220	• •
PP 10641	PP PP	mono mono	106	269	40	102	265	7.8	24-70-130-180 -240	5.2-15.2- 28.3-39.1 -52.2	TW	140-160-180	•
PP 11544	PP PP	mono mono	115	292	44	112	300	8.8	15 - 45	3.3 - 9.8	satin	140-180-220	• •
FPP 229	PP PP	staple staple	20	51	9	23	385	11.3	10	2.2	PW	176-220	• •
FPP 2010	PP PP	staple staple	20	51	10	25	310	9.1	180	39.1	TW	168	•

Fiber
PP = Polypropylene
PP K= Polypropylene /Conductive
SST= Stainless steel

Pattern
TW= Twill
PW= Plain weave


Availability
• = Item produced on demand
• • = Routinely produced

The listed technical specifications are referred to the arithmetic mean value of production samples and are subject to change, in accordance with our policy of continuously improving our products.

Ecofiltra Fabrics

Polyamide Specification Chart

Product	Fiber	Yarn	Mesh Count Warp		Mesh Count Weft		Weight		Air Permeability		Weave	Width	Availability
			n/cm	n/in	n/cm	n/in	g/m²	oz/ yd²	l/ dm²/ min 200Pa	Cfm/ sq.ft - 0.5" WG			
MN 2511	PA6.6 PA6.6	multi multi	25	63.5	11	27.9	370	10.9	12	2.6	PW	160-220	• •
MN 2512	PA6.6 PA6.6	multi multi	25	64	12	30	390	11.5	4-8	0.9-1.7	PW	130-165-180 -220	• •
PA 4321	PA6.6 PA6.6	mono mono	43	109	21	53	350	10.3	375	81.5	satin	140-160-220	•
R 4321	PA11 PA11	mono mono	43	109	21	53	340	10	300-480-575-1080	65.2-104.3-125-234.8	satin	165	•
R 5720	PA11 PA11	mono mono	57	145	20	51	395	11.6	300	65.2	satin	165	•
R 5726	PA11 PA11	mono mono	57	145	26	66	310	9.1	390	84.8	satin	165	•
RPP 5720	PA11 PP	mono mono	57	145	20	51	370	10.9	300	65.2	satin	165	•
V 2623	PA12 PA12	mono mono	26	66	23	58	380	11.2	400	87	TW	140-165-220	• •
V 4422	PA12 PA12	mono mono	44	112	19	48	350	10.3	375-480-1080	81.5-104.3-234.8	satin	135-160	• •
V 6018	PA12 PA12	mono mono	60	152	18	46	410	12.1	80-250-500	17.4-54.3-108.7	satin	130-160	• •
VPP 4422	PA12 PP	mono mono	44	112	18	46	300	8.8	375-500	81.5-108.7	satin	160-220	•
VPP 6018	PA12 PP	mono mono	60	152	18	46	360	10.6	250	54.3	satin	165	•
PA6 5119	PA6 PA6	mono mono	51	130	19	48	350	10.3	300	65.2	satin	250	•

 **Intended to Come In Contact with Food**

Fiber
PA= Polyamide
PP = Polypropylene

Pattern
TW= Twill
PW= Plain weave

Availability
• = Item produced on demand
• • = Routinely produced

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Ecofiltra Fabrics

Polyester Specification Chart

Product	Fiber	Yarn	Mesh Count Warp		Mesh Count Weft		Weight		Air Permeability		Weave	Width	Availability
			n/ cm	n/in	n/ cm	n/in	g/ m²	oz/ yd²	l/ dm²/ min 200Pa	Cfm/ sq.ft - 0.5" WG			
PET BK 1011	PET/SST PET/SST	multi multi	10	25	11	28	245	7.2	120	26	PW	200	•
MPET 77	PET PET	multi multi	6.2	16	6.2	16	450	13.3	285	62	PW	225	•
MPET 1712	PET PET	multi multi	17	43	12	30	340	10	8	1.7	PW	160	•
MPET 2210	PET PET	multi multi	22	56	10	25	570	16.8	10	2.2	PW	189	•
MPET 2412	PET PET	multi multi	24	61	12	30	470	13.9	6	1.3	PW	112	•
MPET 8539	PET PET	multi multi	85	216	39	99	145	4.3	120	26	TW	160	•
PETM 6014	PET PET	mono multi	64	163	14	36	470	13.9	100	21.7	satin	160	•
PETM 8320	PET PET	mono multi	80	203	20	51	350	10.3	90	19.6	satin	150-180	•
PET 3615	PET PET	mono mono	36	91	15	38	355	10.5	960	208.7	TW	160	•
PET 4317	PET PET	mono mono	41	104	17	43	430	12.7	2,310	502.2	satin	228	• •
PET 7814	PET PET	mono multi	78	198	14	36	320	9.4	600	130	PW	150	•
PET 10525	PET PET	mono mono	105	267	20	51	210	6.2	285	62	PW	185-250	•
PET 10526	PET PET	mono mono	105	267	20	51	185	5.5	285-360	62-78.3	PW	185-250	•
PET 20/19/035	PET PET	mono mono	20	51	19	48	500	14.7	1,700	369.6	satin	225-250-265	•
PET 1000 - 44 Blue	PET PET	mono mono	6.6	17	6.6	17	365	10.8	7,305	1520	PW	270	• •
PET 2400 - 56 Blue	PET PET	mono mono	3.1	7.6	3.1	7.6	450	13.3	5,868	1220	PW	270	• •
PET 3800 - 63 Blue	PET PET	mono mono	2.1	5.3	2.1	5.3	450	13.3	6,467	1345	PW	270	• •
PET 1514	PET PET	mono mono	15	38	14	36	510	15	n.a	n.a	special	200	• •
PET 3208	PET PET	mono mono	31	79	8	20	870	25.7	n.a	n.a	satin	150	•
PET BK 1011	PET/SST PET/SST	staple staple	10	25	11	28	190	5.6	500	108.7	PW	200	•
PET BK 1715	PET/SST PET/SST	staple staple	17	43	15	38	245	7.2	120	26	PW	200	•
PET BK 2625	PET/SST PET/SST	staple staple	26	66	25	64	145	4.3	180	39.1	TW	156	•
FPET 2117	PET PET/SST	staple staple	21	53	17	43	390	11.5	70	15.2	TW	115-132	•

Fiber
PET= Polyester
SST= Stainless steel

Pattern
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PW= Plain weave

Availability
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Ecofiltra Fabrics

Undercloth Specification Chart

Product	Fiber	Yarn	Mesh Count Warp		Mesh Count Weft		Weight		Air Permeability		Weave	Width	Avail-ability
	warp / weft	warp / weft	n/ cm	n/in	n/ cm	n/in	g/ m²	oz/ yd²	l/dm² / min 200Pa	Cfm/ sq.ft - 0.5" WG		cm	
PP 44	PP PP	fibrillated fibrillated	4.2	11	4.2	11	480	14.2	700	152	PW	135-160-220	••
PP 1000/44	PP PP	mono mono	6.4	16	6.4	16	250	7.4	10400	2210	PW	220	••
PP 3800/63	PP PP	mono mono	2.1	5	2.1	5	310	9.1	14000	3000	PW	130	••
PE 6080	PE PE	mono mono	5.5	14	6.1	15	600	17.7	2600	565	matt	140-220	•

Specialties Specification Chart

Product	Fiber	Yarn	Mesh Count Warp		Mesh Count Weft		Weight		Air Permeability		Weave	Width	Avail-ability
	warp / weft	warp / weft	n/ cm	n/in	n/ cm	n/in	g/m²	oz/ yd²	l/dm²/min 200Pa	Cfm/sq.ft - 0.5" WG		cm	
PTFE 9135	PTFE PTFE	multi multi	85	216	39	99	338	10	4-10	0,9-2.2	TW	170	•
PBT 4918 KSLF	PBT/SST PBT/SST	mono mono	49	124	19	48	400	11.8	250-400-600	54.3 - 87 - 130	satin	165	•
PBT 4919	PBT PBT	mono mono	49	124	19	48	435	12.8	250-400-600	54.3 - 87 - 130	satin	165	••
PBT 9736	PBT PBT	mono mono	105	267	34	86	640	18.9	72	16.6	satin	160	••
PVDC 600-44	PVDC PVDC	mono mono	11,1	28,2	11,1	28,2	300	8.9	n.a	n.a.	PW	200	•
PVDC 3500-49	PVDC PVDC	mono mono	2,1	5,3	2,1	5,3	1200	35.4	n.a	n.a.	PW	100	•
PVDC 2813	PVDC PVDC	mono mono	28	71	13	33	560	16.5	960	209	TW	192	•
PVDC 3221	PVDC PVDC	mono mono	32	81	21	53	240	7.1	3900	848	TW	195	•
PVDC 5821	PVDC PVDC	mono mono	58	147	21	53	355	10.5	25- 60-120 -240-660	5.4-13- 26.1-52.2 -143.5	TW	175	•
PVDC 1200/380	PVDC PVDC	mono mono	6.3	16	6.3	16	245	7.2	> 8300	> 1804	PW	166	•
PVDC 26/038	PVDC PVDC	mono mono	9.4	24	9.4	24	365	10.8	6160	1339	PW	166	•
PVDC 13/9/037 (W95)	PVDC PVDC	mono mono	13	33	10	25	480	14.2	5800	1261	Honey comb	166	•
PVDF 1515	PVDF PVDF	mono mono	15	38	15	38	420	12.4	4250	924	Matt	180	•
ECTFE 8422	ECTFE ECTFE	mono mono	84	213	22	56	420	12.4	90 - 160	19.6 - 34.8	TW	160	•
DO 2216	DO DO	staple staple	22	56	16	41	370	10.9	55	12	TW	115-165	•
MPP/ PET 269	PP PET	multi mono	26	66	9	23	970	28.6	260-310	56.5 -65.2	TW	n.a.	•

 Intended to Come In Contact with Food

Ecofiltra Fabrics

Double Layer Specification Chart

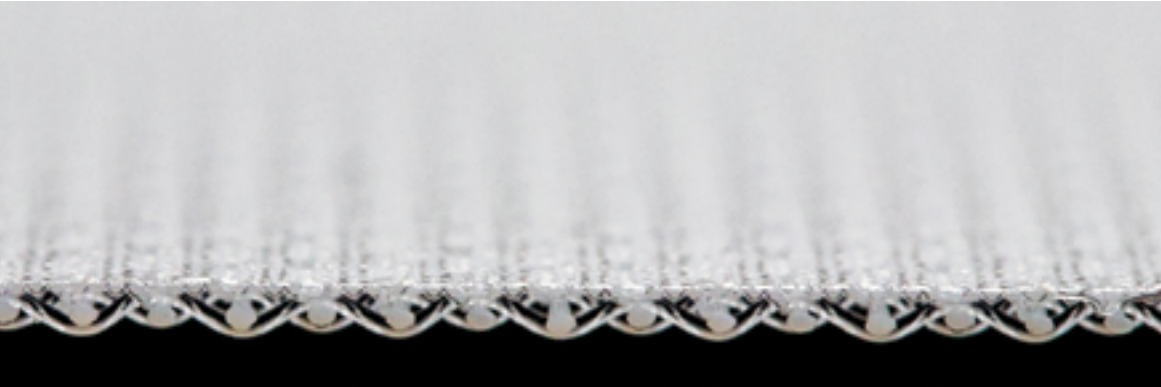
Product	Fiber	Yarn	Mesh Count Warp		Mesh Count Weft		Weight		Air Permeability		Weave	Structure	Width	Avail-ability
	warp / weft	warp / weft	n/ cm	n/in	n/ cm	n/in	g/ m²	oz/ yd²	l/dm² / min 200Pa	Cfm/sq.ft - 0.5" WG			cm	
PPM DL 20607	PP PP	mono mono/multi	65	165	24	61	400	11.8	30 - 50 - 100	6.5 - 10,9 - 21.7	special	woven	248	••
PPDL 0907	PP PP	mono mono	62	157	28	71	420	12.4	100 - 300 - 500 - 1000	21.7 - 65.2- 108.7 - 217.4	special	woven	248	••
PET DL 41/1000	PET PET	mono mono	130	330	130	330	440	13	1500	326.1	PW	laminated	max 228	••
PET DL 75/1000	PET PET	mono mono	73	185	73	185	460	13.6	2000	417	PW	laminated	210-228	••
PP DL 9132	PP PP	mono mono	93	236	33	84	540	16	144	31.3	special	woven	250	••

Fiber
PET= Polyester
SST= Stainless steel
PVDC= PolyVinylidene Chloride
PBT= PolyButylene Terephtalate
PVDF= PolyVinylidene Fluoride
ECTFE= Ethylene ChloroTriFluoroEthylene
DO= Dolanit
PP K= Polypropylene /Conductive
PP= Polypropylene
PE= Polyethylene

Pattern
TW= Twill
PW= Plain weave

Availability
• = Routinely produced
•• = Item produced on demand

The listed technical specifications are referred to the arithmetic mean value of production samples and are subject to change, in accordance with our policy of continuously improving our products.





Applications

Liquid Process Filtration Filter Press

Filter Press

Filter presses were introduced at the turn of the century and have been around for many years, mainly dewatering waste sludges.

They were considered labor intensive machines so they did not find much acceptance in the sophisticated and highly automated process industries. It was not until in the 60's that this image has changed by the introduction of advanced mechanisms that were oriented towards obtaining low moisture cakes that discharge automatically and the washing of the cloth at the end of filtration cycle.

The filter press consists of head and follower that are contained in between a pack of vertical rectangular plates. Each plate is dressed with filter cloth on both sides and, once pressed together, they form a series of chambers, depending on the number of plates. The entire pack of plates is supported by side or overhead beams.



Calendaring Machine and Washing Machine at SAATI Deutschland

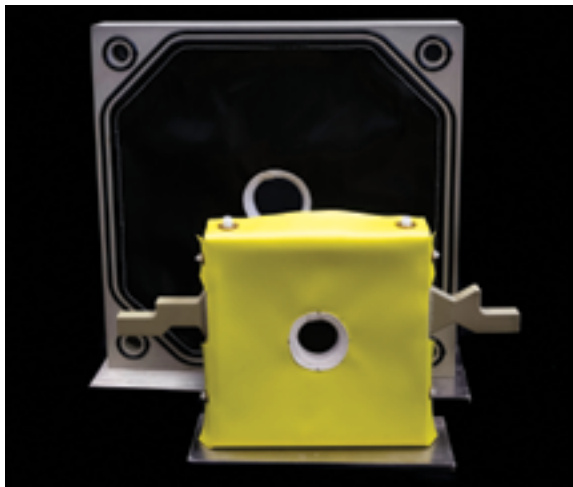


Applications

Process Filtration

Filter Cloth for Filter Press

Production of filter cloth as barrel neck filter cloth, overhang cloth or single cloth has always belonged to our traditional core business. For all known press brands we are able to furnish the matching filter cloth. In addition we produce filter belts for automatic tower filter press.



Fields of Application	Material	Air Permeability l/dm ² /min 200 PA
Wastewater treatment in galvanic industry	MPP	3-20
Petrol Filtration	PVDC / PES	350-900
Chemical and Pharmaceutical Industries	FPP MPP PPM N PET, PETM PVDC	3-700
Dyestuff Filtration	MPP / PPM	3...7
Industrial Wastewater Treatment	PP PPM MPP	5-30
Porcelain Industry	MN	3-20
Communal Wastewater Treated With: - Iron & Calcium Conditioner - Iron & Lime - Polymer Conditioner - Polymers	V / PP V / PP	ca. 1000 ca. 500

Applications

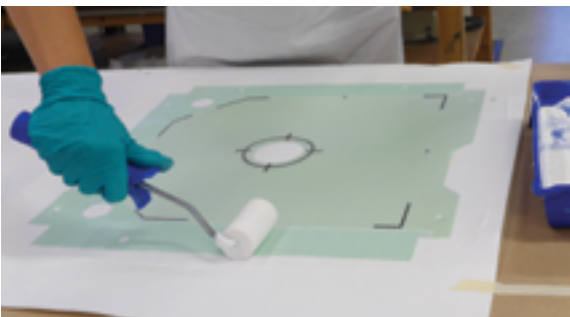
Solid/Liquid Separation

Fabrication Solutions

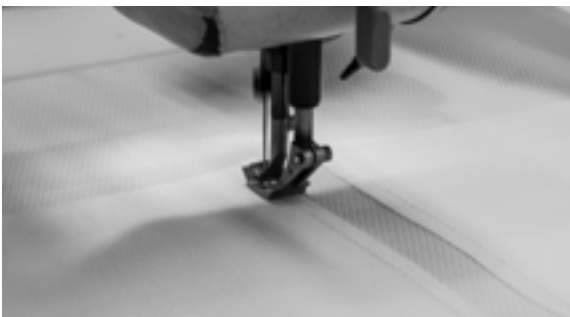
The filter cloths are adapted to the needs of the customer, such as plate dimension, cake weight requirements, particle retention or productivity. SAATI has developed a wide range of standard and specific closure systems and edge treatments, together with barrel neck fittings. With our specialized cutting equipment, we can offer custom/cut-to-size materials for your specific application, in desired widths ranging from 5 cm upwards, heat cut or cold cut. Our technically skilled staff routinely fabricates finished products using various filter media in a wide range of sizes and designs to meet your custom product requirements.



Laser Cutting



Coating



Modern Sewing



Support and Filter Cloths Coupled



Reinforcement for Iron Plate

Industry	Application	Filter Type	Example of SAATI Ecofiltra Items		
Alumina	Waste Water Treatments	Horiz. Filter Press	MPP	6812	(1 - 3l/dm ² /min)
Breweries	Mesh	Horiz. Filter Press	PP	6022	(500l/dm ² /min)
			PP	4015	
	Yeast	Horiz. Filter Press	PP	6022	(500l/dm ² /min)
Cement	Dewatering	Horiz. Filter Press	MPP	1325	(8l/dm ² /min)
Ceramics	Dewatering	Horiz. Filter Press	PP	4015	
Coal	Tailings	Horiz. Filter Press	PP	2623	
			V	4422	
			V	6018	
Dyes/Pigments	Dewatering	Horiz. Filter Press	MPP	1325	(8l/dm ² /min)
			MPP	1510	
			MPP	1325	(8l/dm ² /min)
			MPP	1812	Calendered
			MPP	4813	
General Chemicals Eg. Silicates Zeolites Detergents	Process Filtration	Horiz. Filter Press	MPET	2412	
			MPP	1325	(8l/dm ² /min)
			MPP	1812	Calendered
			MPP	1325	(8l/dm ² /min)
			MPP	4813	
			PP	6022	(360l/dm ² /min)
			PP	10640	(25l/dm ² /min)
Glucose	Activated Carbon Removal	Horiz. Filter Press	MPP	6012	
			PP	11544	
			MPP	1325	(8l/dm ² /min)
Industrial Effluents	Process Filtration	Horiz. Filter Press	PP	10640	(25l/dm ² /min)
			PPM	4414	
			MPP	1325	(8l/dm ² /min)
			MPP	1325	(8l/dm ² /min)
			PP	10640	
Mining & Metallurgical Refining	Purification	Horiz. Filter Press	MPP	1510	(8l/dm ² /min)
			PP	10640	(25l/dm ² /min)
Oils/Fats	Bleaching	Horiz. Filter Press	MPP	1325	(8l/dm ² /min)
	Hydrogenation	Horiz. Filter Press	MPET	2412	
	Fractionation	Horiz. Filter Press	V	4422	
Quarries	Sand, Gravel, Aggregate Dewatering	Horiz. Filter Press	PP	11544	Antistatic
			V	2623	
			V	4422	
Sugar		Horiz. Filter Press	V	6018	
			PP	4015	
			PP	10640	(25-80l/dm ² /min)
			PP	9736	
			PP	9736	
Titanium Dioxide	Precalcination	Horiz. Filter Press	PP	10640	(25l/dm ² /min)
			PP	9726	White
			PP	9736	
Waste Water Treatment	Alum Removal	Horiz. Filter Press	V	4422	
			V	6018	
			V	4422	
			V	6018	
			PP	2623	
			PP	2623	
			V	4422	
			V	6018	
			V	4422	
			PPM	4414	
			MPP	1325	(25l/dm ² /min)
			MPP	1325	(25l/dm ² /min)

Applications

Liquid Process - Rotary Vacuum Drum Filter

Rotary Vacuum Drum Filter

Rotary vacuum drum filter (RVDF) is one of the oldest filters used in the industrial liquid solids separation. It offers a wide range of industrial processing flow sheets and provides a flexible application of dewatering, washing, and/or clarification.

Rotary vacuum filters consist of large rotating drum covered by a cloth. The drum is suspended on an axial over a trough containing liquid/solids with approximately 50-80% of the screen area immersed in the slurry. The drum rotates into and out of the trough, the slurry is sucked onto the surface of the cloth and rotated out of the liquid/solids suspension as a cake. When the cake is rotating out, it is dewatered in the drying zone. The cake is dry because the vacuum drum is continuously draining the cake and taking the water out of it. At the final step of the separation, the cake is discharged as a solid product and the drum rotates continuously to another separation cycle.



Applications

Rotary Drum Filter

Rotary drum filters are often the workhorse of filtration in the solid/liquid separation industry. The design of the different types of drum filters reflects the enormous variety of jobs for this filter type and the industry. SAATI offers a unique range of mono and multifilament belts.

Main Features

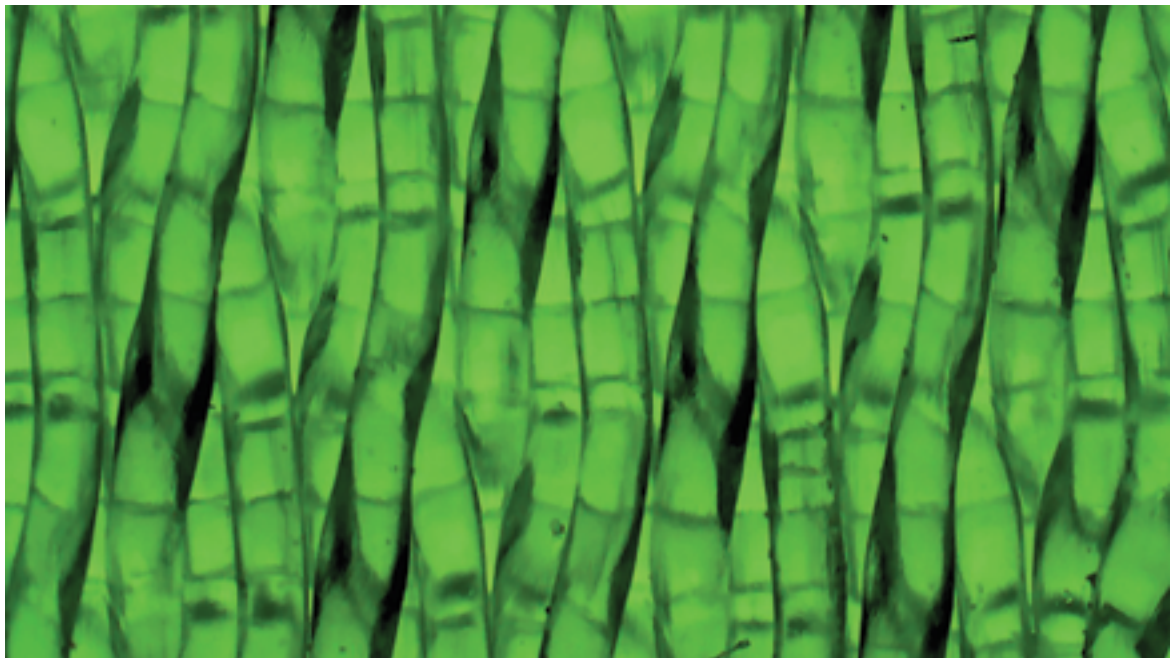
- Available in PP, PET, PA, PEEK, PVDF, and ECTFE
- Pore size from 2 to 160µm
- Choice of edge treatment and edge profiles as required by the equipment
- Closure as required for the type of rotary drum

Your Benefits

- Optimal chemical and thermal resistance
- No particle gloss
- Good filter performance
- Easy installation
- Low maintenance costs



Rotary Drum Filter



Satin Weave

Applications

Rotary Disc Filter

Rotary disc filter have a high filtration-to foot-print ratio. However, today's high performance rotary disc filters or hyperbaric rotary disc filters are heavily dependent on appropriate filter fabrics. In close cooperation with leading machine producers SAATI has developed a range of mono and multifilament fabrics especially adapted to the needs of this filter type.

SAATI Offers

- Elastic multifilament fabrics
- Monofilament fabrics

Main Features

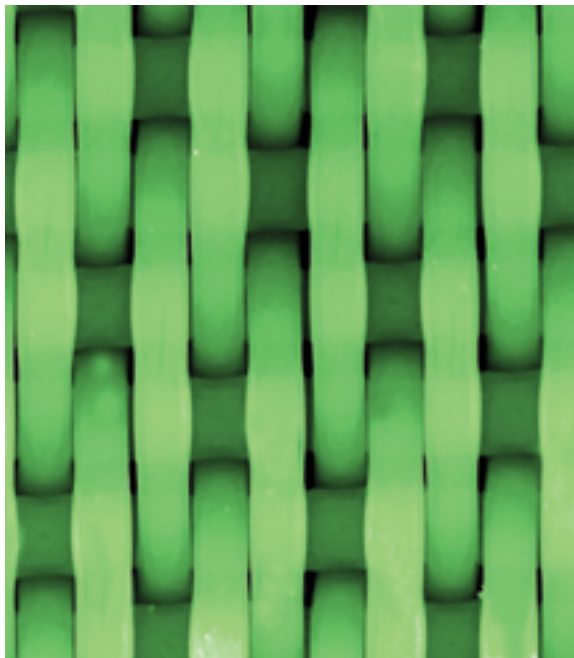
- Available in PA, PP and PET
- Wide choice of pore size
- Perfect fit and snap-back properties
- High abrasion resistance

Your Benefits

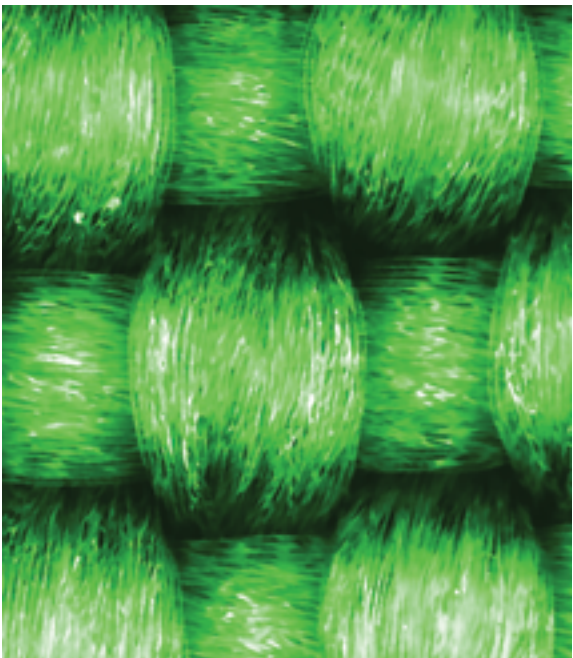
- Material easily adjustable to meet individual needs
- Good cake release
- Low maintenance costs



Rotary Disc Filter for De-Watering



Monofilament Fabric



Multifilament Fabric

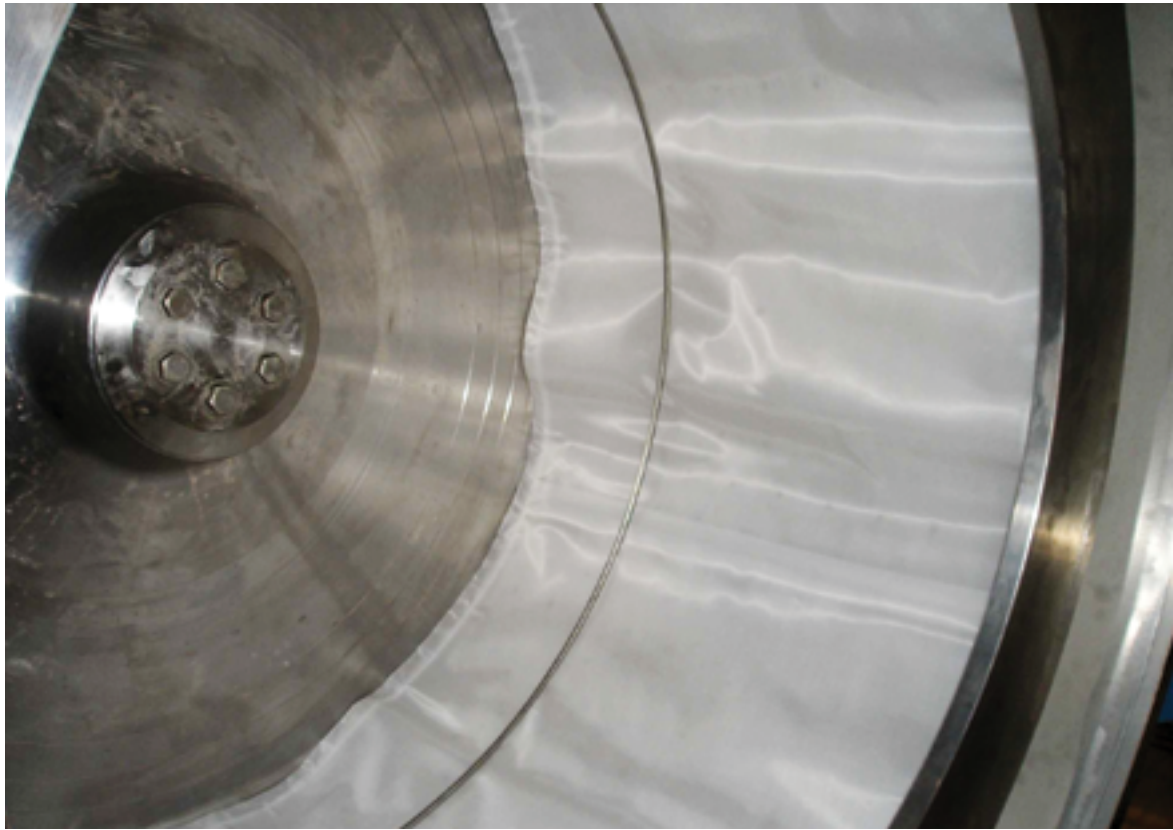
Applications

Filtration - Liquid Process

Centrifuge

There are many designs of centrifuges in use today mainly in the pharmaceutical, and in the fine & speciality chemicals industries.

- The inverting filter centrifuge operates semi-continuously and are automatically controlled
- A rigid filling pipe projects through the solids housing where slurry is discharged into the rotating drum
- There are distribution bars within the drum which ensure even 360° spread over the whole surface so that the filter is properly balanced
- A filter cake of solid material forms at the same time as the filtrate is efficiently discharged
- When maximum weight within the filters is reached, the filling valve closes and filtration continues to the washing stage
- After the washing stage has finished the filter is run at a speed which is appropriate to the product for the final dewatering
- At the conclusion of dewatering the machine decelerates automatically to discharge speed. The drum insert opens temporarily and the solid cake is discharged under rotation



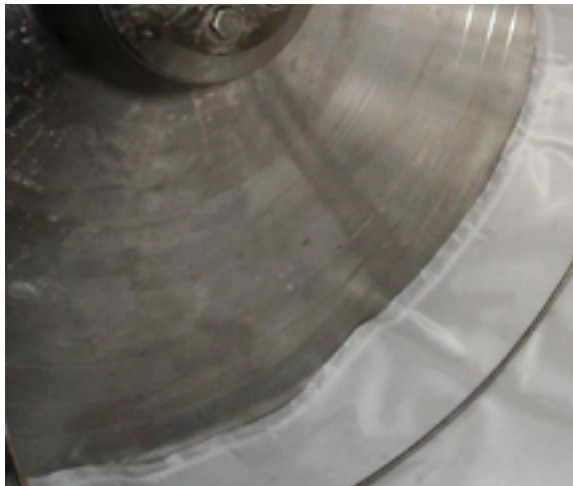
Liquid Filtration

Filter Types Chart

Industry	Application	Filter Type	Example of SAATI Ecofiltra Items		
Pharmaceutical	Waste Water Treatment	Centrifuge	PVDF	9535	
			PPDL	0907	
			PPMDL	206007	
Alumina	Red Mud Underflow	Rotary Vacuum Drum	V	6018	
			PP	4015	
			V	4422	
	Hydrate Seed	Rotary Vacuum Drum/Disc Filter	V	4422	
			PP	6022	(500l/dm ² /min)
	Hydrate Product	Rotary Vacuum Drum/Disc Filter	PP	4015	(Black)
			V	4422	
			V	4422	
Coal	Froth Filtration	Rotary Vacuum/Horizontal Belt Filter	PP	4015	
			V	4422	
			V	4422	
Flue Gas Desulphurization	Gypsum Dewatering	Rotary Vacuum Drum	PP	4015	
			V	4422	
			PP	9736	
Mining & Metallurgical Refining	Ore Dewatering	Rotary Vacuum Drum	PP	9736	
			V	4422	
			PP	10640	(25l/dm ² /min)
Sugar	Carbonation (1st)	Rotary Vacuum Drum	PP	4015	
			V	4422	
			PP	9736	
Titanium Dioxide	Washing/Dewatering (Pre/Post Leach)	Moore Leaf, Rotary Vacuum Drum	MPP	6012	
			MPP	1325	
			MPP	1410	
			MPP	4015	
	Treatment Washing	Moore Leaf, Rotary Vacuum Drum	MPET	2412	

Applications

Solid/Liquid Separation



Fields of Application	Material	Air Permeability l/dm ² /min - 200 PA
Chemical Industry Pigment Pulp & Paper	PP	30-1000
Food	PET	300-1500

Fabrics for Centrifuges

We produce centrifuge bags - above all made of PP and PET - for centrifuges from different producers. Coverings for drum filters and disc filters are produced according to customer's requirements. In order to grant absolute fitting accuracy, adjustment of filters is achieved by prior sampling.

Fabricated Parts

SAATI Offers

- Centrifuge bags
- Liners for peeler centrifuges such as endless liners
- Bags for inverting filter centrifuges



Ecofiltra Fabrics

Solid/Liquid Separation

Filter Belts for Horizontal Vacuum Belt Filters

We produce centrifuge bags - above all made of PP and PET - for centrifuges from different producers. Coverings for drum filters and disc filters are produced according to customer's requirements. In order to grant absolute fitting accuracy, adjustment of filters is achieved by prior sampling.

Fields of Application	Mate- rial	Air Permeability l/dm ² /min - 200 PA
Waste water treatment in galvanic industry	PP	30-1000 l/ dm ² /min
Mining/Sludge De-Watering	PET	300-1500 l/ dm ² /min
Coolant Water Recycling	PET DLW	1000

Industry	Application	Filter Type	Example of SAATI Ecofiltra Items	
Coaling Emulsion & Oils	Grinding	Emulsion & Oil Belt Filters	PET DL	237, 1-07
			PET DL	41/1000
			PET	75/1000
Flue Gas Desulphurisation	Gypsum De-Watering	Vacuum Belt Filters	PPDL	41/1000
			PET	75/1000



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Notes

Take notes before you contact [SAATI Customer Service](#)

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