



# Polyester Filter Belt

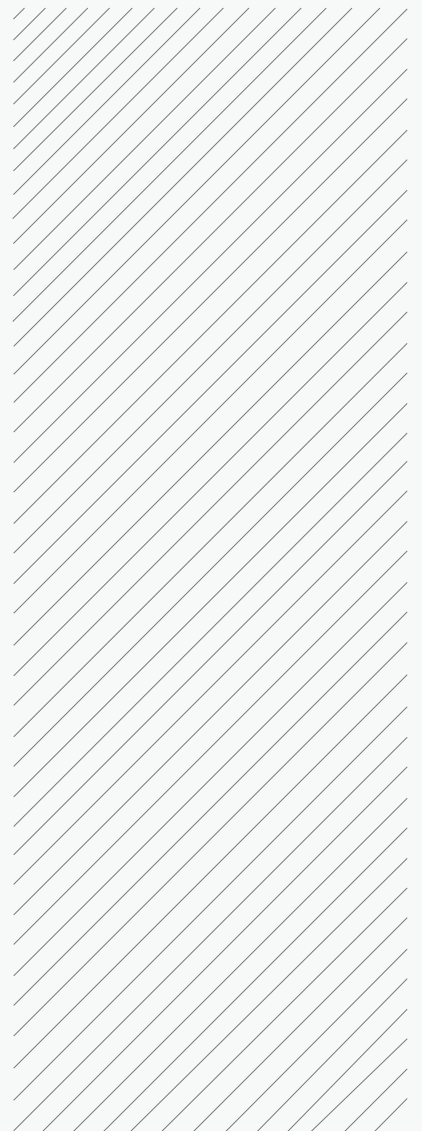
Weave Impossible to Possible



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# BOEDON Brochure



## **Polyester filter belts prove to be a combination of high dimensional stability, wear resistance, corrosion resistance, longevity, and convenient cleaning.**

**Polyester filter belt** is a kind of conveyor belt made of polyester fiber with excellent strength and abrasion resistance performance. It is widely used in papermaking, mineral processing, flour, sewage treatment, sugar making, pharmaceuticals, ceramics, food, printing, and coal washing industries.

Polyester filter belt adopts the structural form of braided or woven combination (interwoven polyester fibers through hot press combination technology), which makes the mesh belt have good stability and carrying capacity. It features high strength, small deformation, excellent corrosion resistance and abrasion resistance performance, easy installation and use, no interface marks, and a long service life.

# **Polyester Filter Belt**

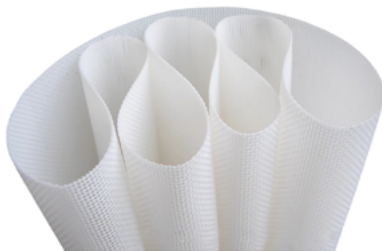
## POLYESTER FILTER BELT

# Types

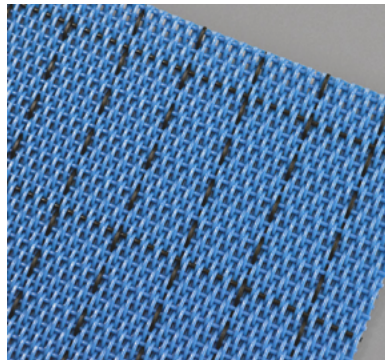
## Classified by applications:

The commonly used types are polyester forming fabrics, polyester dryer fabrics, polyester spiral dryer fabrics, spiral press filter fabrics, polyester anti-static fabrics, vacuum filter belts, and sludge dehydration fabrics.

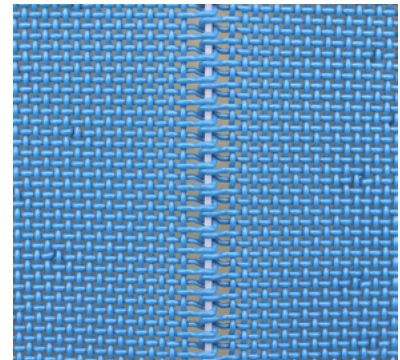
## Classified by seams



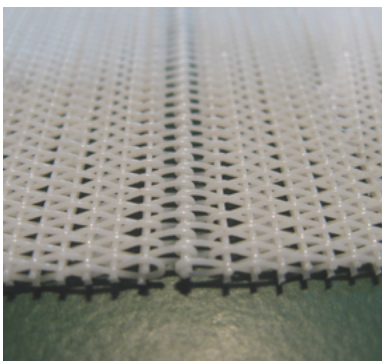
Endless seam (ring belt)



Single warp-ring seam



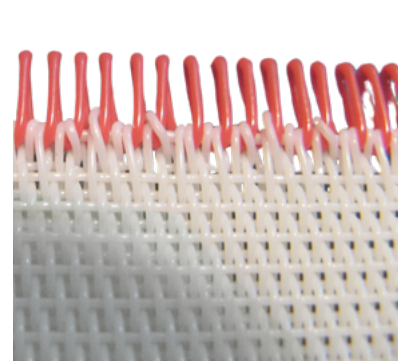
Pairs warp-ring seam



Plug-in spiral ring seam



Stainless steel clip seam

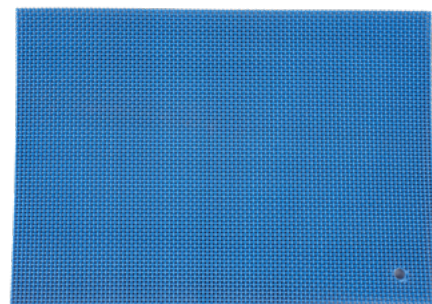


Wrap-ring seam



## Polyester Forming Fabric

Polyester forming fabrics are commonly used for dewatering in the paper machine-forming sector of the paper industry and are usually composed of warp and weft threads. The warp thread refers to the longitudinal braid, and the weft thread refers to the transverse braid. The warp thread in the paper machine withstands greater tension and also withstands continuous bending and correction effects, so the requirements of the warp thread are very strict, and the diameter of the weft thread is usually about 10% larger than the diameter of the warp thread.

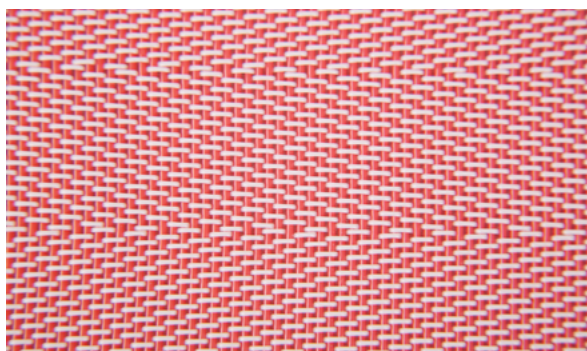


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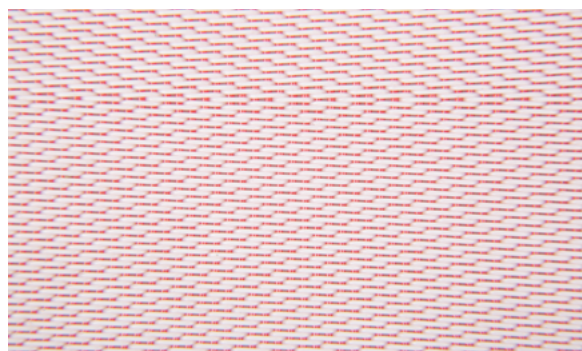
### Types

According to the weaving type, polyester forming fabrics can be divided into 4-shed single layer fabric, 5-shed single layer fabric, 8-shed single layer fabric, 8-shed double layer fabric, 16-shed double and a half layer fabric, 24-shed three-layer fabric, etc.

- 4-shed and 5-shed series single layer fabric is a standard type of polyester forming fabric in paper making, mainly used for producing cultural paper (single glue, double glue, and color glue), printing paper, glazed paper, packing paper, common newsprint, etc. Suitable for common fourdrinier paper machines.
- 8-shed single layer fabric is suitable for producing the packing paper that is requested in large quantities, such as kraft paper, cardboard, corrugated paper, etc. Also, it could be used to produce common printing paper. Suitable for common fourdrinier paper machines.
- 8-shed double layer fabric is suitable for producing quality printing paper, which includes dictionary paper, offset printing paper, newsprint, and wrap paper. Also, it could be used to produce tissue paper and surface pulp, lining pulp, core pulp, and bottom pulp of board paper, etc. Suitable for medium and high speed paper making machines.
- 16-shed double and a half layer fabric is suitable for producing quality printing paper, such as offset printing paper, copperplate paper, newsprint, and cigarette paper series (wrap paper and filter tips paper), it could also be used for producing toilet paper, tissue paper, and surface pulp, lining pulp, core pulp and bottom pulp of board paper, etc. Suitable for medium and high speed paper making machines.
- Multi-shed three-layer fabric is suitable for producing quality printing paper, tissue paper, cigarette paper, etc. Suitable for high speed paper making machines.



4-shed polyester forming fabric



5-shed polyester forming fabric

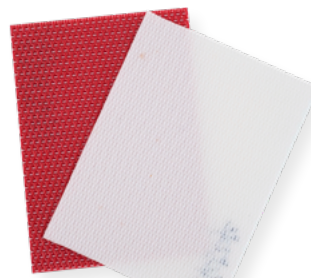
## Polyester Forming Fabric Specification

Weaving Series & Types	Model of Fabrics	Wire Diameter (mm)		Density (wire/cm)		Strength (N/m)	Air Permeability (m <sup>3</sup> /m <sup>2</sup> /h)
		Warp	Weft	Warp	Weft	Surface Area	
4-Shed Single Layer Fabric	27254	0.20	0.25	29.0	22.0	≥ 600	7,500 ± 500
	27274	0.20	0.27	30.0	22.5	≥ 600	7600 ± 500
	31204	0.20	0.22	35.0	28.0	≥ 600	6,500 ± 500
5-Shed Single Layer Fabric	27255	0.20	0.25	30.0	23.0	≥ 600	7,600 ± 500
	27285	0.22	0.28	30.0	23.0	≥ 500	7,800 ± 500
	31205	0.20	0.21	35.0	32.0	≥ 600	6,700 ± 500
8-Shed Single Layer Fabric	25358	0.22	0.35	28.0	19.5	≥ 700	9,000 ± 500
	25408	0.22	0.40	29.5	19.0	≥ 700	8,500 ± 500
	27358	0.22	0.35	29.0	20.0	≥ 700	8,500 ± 500
	27408	0.22	0.40	31.5	19.0	≥ 700	8,000 ± 500
8-Shed Double Layer Fabric	56188	0.17	0.19/0.22	61.3	51.2	≥ 850	6,800 ± 500
	60188	0.18	0.18/0.20	66.0	49.0	≥ 900	6,000 ± 500
	62188	0.15	0.16/0.17	70.5	50.5	≥ 900	5,700 ± 500
16-Shed Two and a Half Layer Fabric	365016	0.28	0.20, 0.27/0.50, 0.50	37–38	31–32	≥ 1,200	8,500 ± 500
	424516	0.25	0.20, 0.25/0.45, 0.45	48–49	42–43	≥ 1,250	8,000 ± 500
	562516	0.18	0.13, 0.18/0.25, 0.25	57–58	46–47	≥ 1,500	6,500 ± 500
	563516	0.20	0.13, 0.25/0.35, 0.35	56–57	61–62	≥ 1,500	7,000 ± 500
	602516	0.18	0.13, 0.20/0.25, 0.25	62–63	55–56	≥ 1,500	6,200 ± 500
	603516	0.20	0.13, 0.25/0.35, 0.35	61–62	52–53	≥ 1,500	6,300 ± 500
20-Shed Triple Layer Fabric	563520	0.15,0.20	0.15, 0.15/0.35, 0.35	70	55	≥ 1,600	5,000 ± 500
24-Shed Triple Layer Fabric	364024	0.20/0.20	0.20, 0.17/0.40, 0.40	42	52	≥ 1,600	6,500 ± 500

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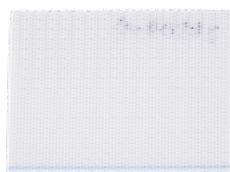
# Polyester Dryer Fabrics

Polyester dryer fabric is a polyester fabric made of polyester fabrics woven in spiral and heddle inserting methods, often used in the paper industry to separate solids or liquids. Normally, it carries the paper sheet to travel around a large diameter heated cylinder for appropriate water evaporation.

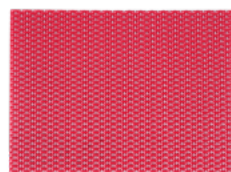


## Types

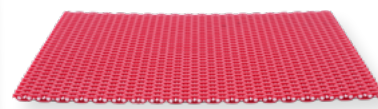
- According to the shapes of polyester dryer fabrics, there are two types: round wire dryer fabric and flat wire dryer fabric. Among them, flat woven mesh, also known as shaped woven mesh, has flat wires that provide good contact with paper and improve the aerodynamic properties and cleanliness of the fabric surface.
- According to the category, polyester dryer fabrics can be divided into one and a half layer dryer fabric, double layer dryer fabric, fat wire dryer fabric, flat double warp wire dryer fabric, and special material dryer fabric.
  - 3-shed, 4-shed one layer and a half are suitable for drying cultural paper, printing paper, packing paper, etc.
  - Flat wire and flat double warp wire dryer fabric are suitable for the fore several heating boxes in the drying zone, quality papers can use both.
  - Special material dryer fabric has the characteristics of high temperature resistance, abrasion resistance, aging resistance, etc.



Round dryer fabric



Flat dryer fabric



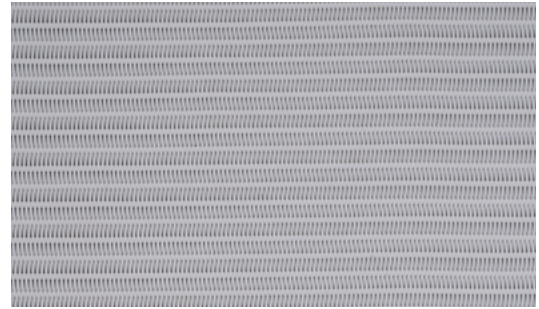
Polyester Dryer Fabrics Specification

Weaving Series & Types	Model of Fabrics	Wire Diameter (mm)		Density (wire/cm)		Strength (N/cm)	Air Permeability (m <sup>3</sup> /m <sup>2</sup> /h)
		Warp	Weft	Warp	Weft	Surface Area	
3-Shed Series	22503	0.50	0.50	24.00	12.00	≥ 2,000	8,000 ± 500
	20504	0.50	0.50	22.00	12.00	≥ 1,900	13,000 ± 500
4-Shed Series	22504	0.50	0.50	24.00	12.00	≥ 2,000	12,000 ± 500
	24504	0.50	0.50	26.00	12.00	≥ 2,100	11,000 ± 500
Round Wire Fabric	4106	0.50	0.50	22.00	12.40	≥ 2,000	6,800 ± 500
Flat Wire Fabric	4106-1	0.38 × 0.58	0.50	16.66	15.00	≥ 2,000	5,954 ± 500
	4106-2	0.38 × 0.58	0.40/0.60	18.00	14.66	≥ 2,000	4,800 ± 500
	SL4106	0.50 × 0.75	0.60/0.40	14.66	12.66	≥ 2,100	6,000 ± 500
	SJ1860	0.25 × 1.05	0.60/0.90	9.00	7.00	≥ 2,200	2,100 ± 500

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## Polyester Spiral Dryer Fabrics

Polyester spiral dryer fabric is suitable for drying large quantities of packaging paper, cultural paper, board, and pulp board. Widely used in papermaking, coal mining, food, medicine, printing and dyeing, and rubber products industry, can also be used as a conveyor belt and composite machine supporting mesh belt. It has the advantages of large air permeability, flat mesh surface, arbitrary splitting, good strength, and long service life. Special material dryer fabric also features high temperature, high abrasion, and aging resistance performance.



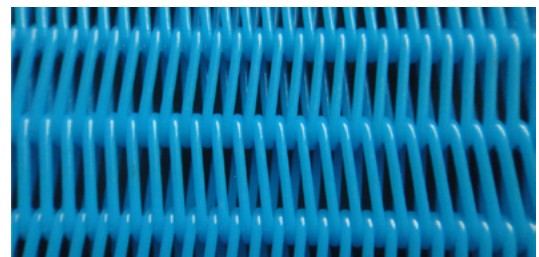
Polyester Spiral Dryer Fabrics Specification

Types	Model of Fabrics	Wire Diameter (mm)		Strength (N/cm)	Air Permeability (m <sup>3</sup> /m <sup>2</sup> /h)
		Warp	Weft	Surface Area	
Coarse Loop	LW90110	0.9	1.1	≥ 2,300	21,000 ± 500
Large Loop	LW4080	0.9	1.1	≥ 2,000	18,000 ± 500
Medium Loop	LW3868	0.7	0.9	≥ 2,000	16,000 ± 500
Fine Loop	LW3560	0.6	0.8	≥ 2,000	15,000 ± 500
Micro Loop	LW3252	0.5	0.7	≥ 1,800	15,000 ± 500
Medium Loop (Flat Wire)	JLW3868	0.48 × 0.82		≥ 2,000	10,000 ± 500

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## Polyester Spiral Press-Filter Fabrics

Polyester spiral press-filter fabric is a filler wire added to the spiral ring, so the air permeability is reduced, and less material loss on the surface of the fabric. Mainly used in paper making, printing and dyeing, food, pharmaceuticals, ceramics, and solid-liquid separation industries like sludge dehydration.



Polyester Spiral Press-Filter Fabric Specification

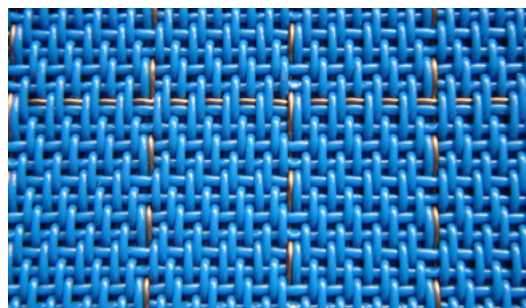
Types	Model	Wire Diameter (mm)			Strength (N/cm)	Air Permeability (m <sup>3</sup> /m <sup>2</sup> /h)
		Warp	Weft	Filler	Surface Area	
Large Loop	LW4080IV	0.9	1.1	0.90 × 4	≥ 2,300	10,231 ± 500
	LW4080V	0.9	1.1	0.90 × 5	≥ 2,300	6,317 ± 500
Medium Loop	LW3868III	0.7	0.9	0.80 × 3	≥ 2,000	10,320 ± 500
	LW3868IV	0.7	0.9	0.80 × 4	≥ 2,000	8,500 ± 500
Micro Loop	LW3252III	0.52	0.7	0.68 × 3	≥ 1,800	2,850 ± 500
Medium Loop (Flat Wire)	LW3868J	0.7	0.7	(J)0.24 × 0.85	≥ 2,000	10,100 ± 500



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## Polyester Spiral Dryer Fabrics

Polyester anti-static filter fabric is mainly used for chemical fiber, dry papermaking, fiberboard continuous press mesh belt, continuous pre-press mesh belt, and materials needed for conductive, anti-static industry. The use of polyester mesh equipment in high-speed operation can produce static electricity. When the conductive fabrics are through polyester mesh, they can release static electricity, so as to have an anti-static effect.



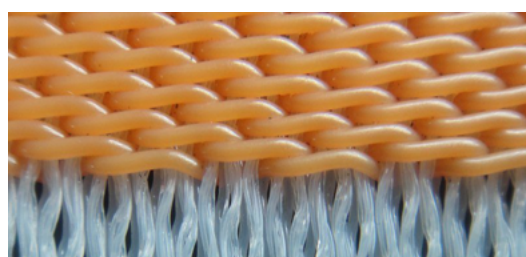
Polyester Anti-Static Filter Fabrics Specification

Model	Wire Diameter (mm)		Density (wire/cm)		Strength (N/cm)	Air Permeability (m <sup>3</sup> /m <sup>2</sup> /h)
	Warp	Weft	Warp	Weft	Area of the surface	
4106	0.5	0.5	23.00	12.00	≥ 2,000	6,800 ± 500
4080	0.9	1.1	-	-	≥ 2,000	20,000 ± 500

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## Vacuum Filter Belt

Vacuum filter belts are mainly used for FGD in power plants, mine tailings disposal, metallurgical, chemical, coal chemical, food, pharmaceutical, environmental protection, and other solid-liquid separation industries. The belt features stable running, is not easy to wrinkle, has a high filtration rate, and can easily peel off the filter cake. Mainly matched with vacuum rubber belt filter, horizontal vacuum belt filter, vacuum drum filter, and vertical filter press.



Vacuum Filter Belt Specification

Model	Wire Diameter (mm)		Density (wire/cm)		Strength (N/cm)	Air Permeability (m <sup>3</sup> /m <sup>2</sup> /h)
	Warp	Weft	Warp	Weft	Surface Area	
C28508F	0.5	0.5	30	20	≥ 1,450	2,158 ± 500
C28508M	0.5	0.5	28	21	≥ 1,390	710 ± 500



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## Sludge Dehydration Fabrics

Sludge dehydration fabric's mesh belt adopts a herringbone design, the sludge is quickly peeled off from the mesh belt, it is not easy to stick to the sludge, a large amount of sludge is discharged, it is easy to clean, and it is fast and convenient to connect. Mainly used in belt filter press, rubber belt vacuum filter, and horizontal vacuum belt filter. It is suitable for municipal sludge, various industries and enterprises sludge filter press, paper mill pulp press, concentrated fruit juice press, and other special industry uses.



Sludge Dehydration Fabrics Specification

Model	Wire Diameter (mm)		Density (wire/cm)		Strength (N/cm)	Air Permeability (m <sup>3</sup> /m <sup>2</sup> /h)
	Warp	Weft	Warp	Weft	Surface Area	
16903	0.7	0.9	16	5.33	≥ 2,200	7,894 ± 500
22903	0.5	0.9	22	5.33	≥ 2,000	6,800 ± 500
26808	0.5	0.8	27	8.5	≥ 2,100	5,120 ± 500
15905	0.9	0.9	17	4.8	≥ 4,500	6,741 ± 500
151105	0.9	1.1	16	4.8	≥ 5,000	6,749 ± 500
121104	0.9	1.1	12	3.8	≥ 3,600	8,610 ± 500



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