

# SAATIfil Conductive

Precision Fabrics  
for Screening & Shielding  
Applications

— SAATI

# Table of Contents

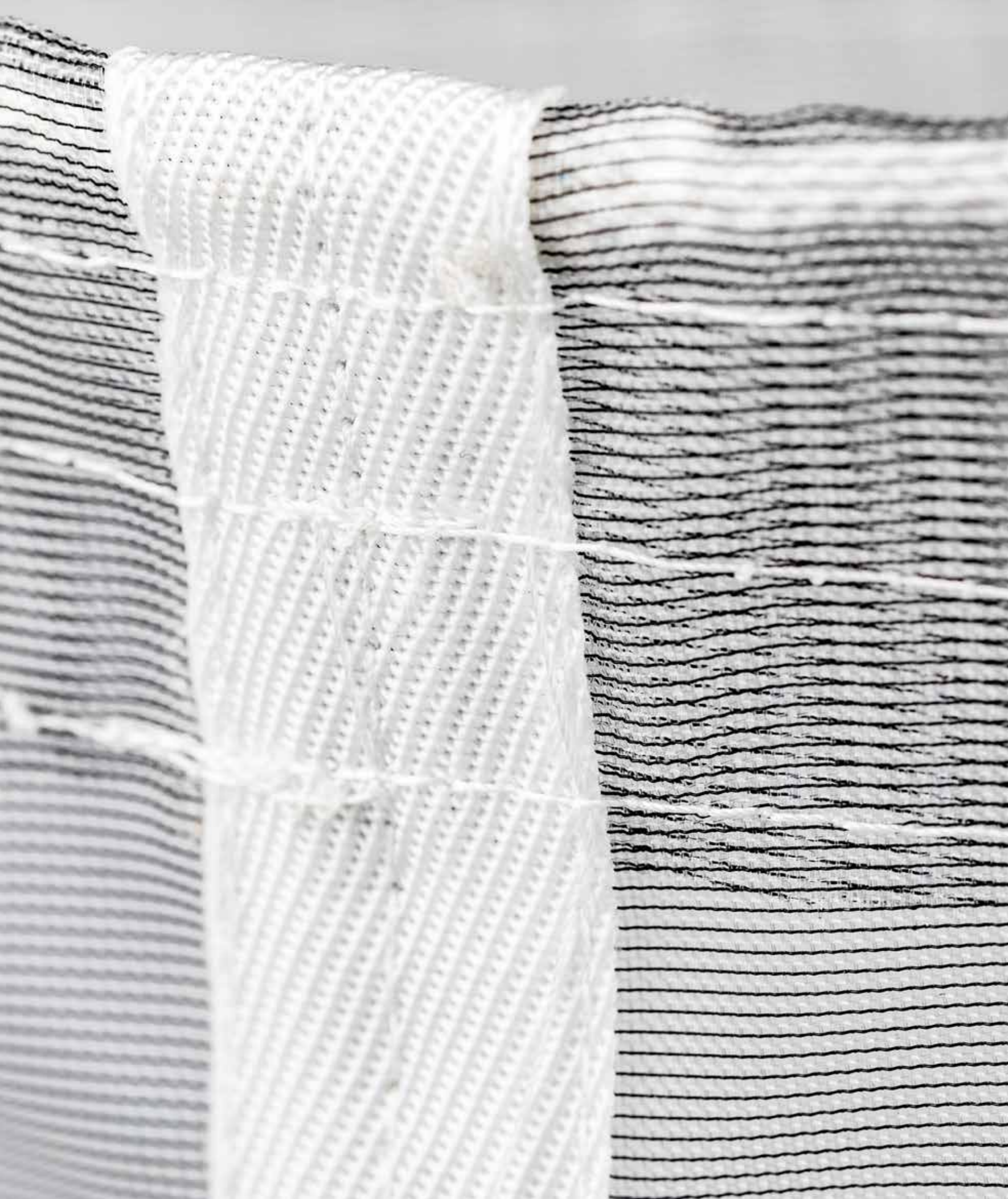


<a href="#">Company Information</a> .....	02
<a href="#">Customer Focus</a> .....	04
<a href="#">SAATIfil Conductive</a> .....	06
<a href="#">Applications</a> .....	08
<a href="#">Mesh Construction</a> .....	09
<a href="#">Technical Data</a> .....	10
<a href="#">Fabrication</a> .....	11
<a href="#">Notes</a> .....	12
<a href="#">SAATI Global Contact Information</a> .....	BACK

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# 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 Polyamide, 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

SAATIfil Conductive is our dedicated line for screening and shielding applications and manufactured in accordance with ISO 9001:2000.

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 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.







# SAATIfil Conductive

SAATI developed a range of Conductive Mesh adding electrical conductivity to its fabrics without affecting the traditional mechanical and surface properties.

The electrical conductive fabrics can be obtained combining nylon to carbon suffused nylon conductive fibers or sputtering metal on polyester fabrics. The main functionalities are draining static charge and preventing the passage of electromagnetic fields.

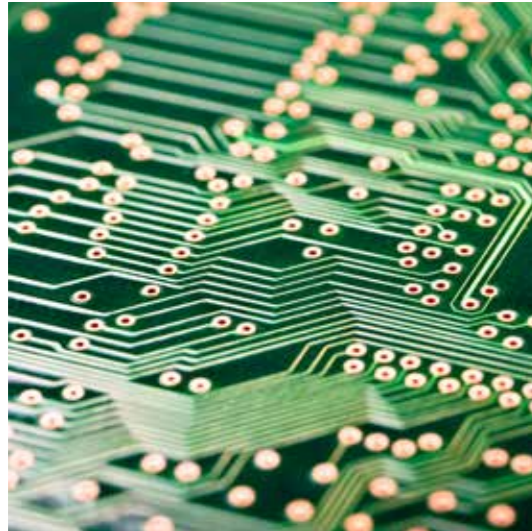
SAATIfil® Conductive meshes, thanks to an electrical resistance in the range of  $1 \times 10^4 \Omega \div 1 \times 10^6 \Omega$ , perfectly conduct static charge away from sensitive areas and then prevent its accumulation.

The conductive product range is fabricated to customers' exact specifications in UNI EN ISO 9001 certified facilities.

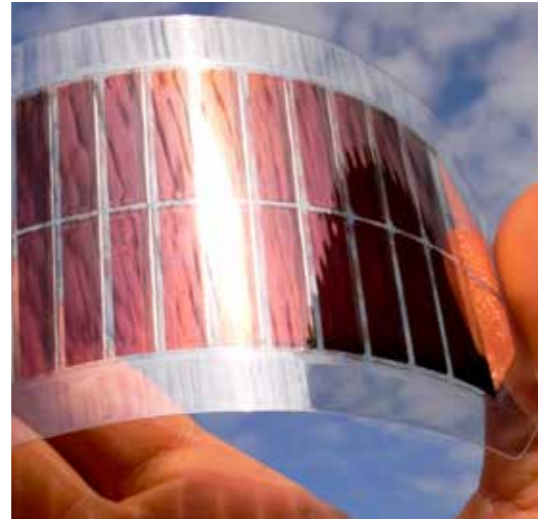
# SAATIfil Conductive

## Filter Applications Overview

SAATIfil Conductive is the optimal solution for applications that demand excellent electrical conductivity, high flexibility and superior resistance to abrasion.



Electrical Circuit



Flexible Solar Cells - Flexible Electronics



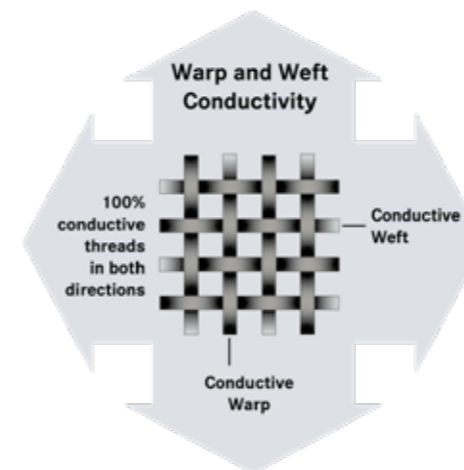
Sifting Sleeves



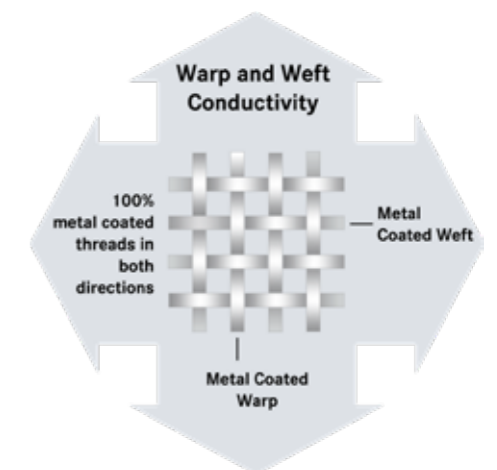
Powder Painting

# SAATIfil Conductive

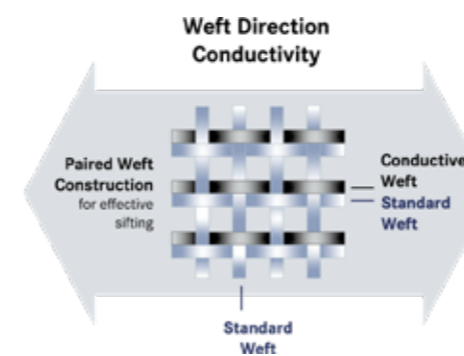
## Mesh Construction



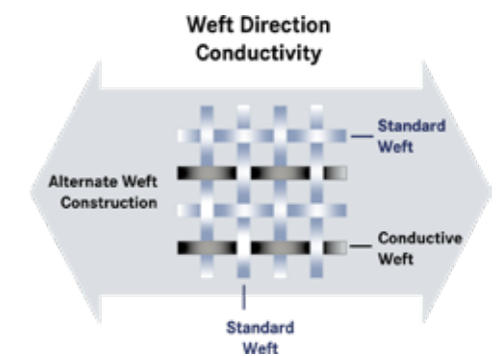
Plain weave construction, entirely composed by conductive threads (carbon suffused polyamide for both warp and weft). Electrical conductivity is therefore achieved either in warp or in weft direction.



Metal sputtered polyester fabric. Electrical conductivity is achieved either in warp or in weft direction.



Construction with paired weft threads: each pair is composed by one conductive & one standard yarn. Moreover, the paired wefts allow a more effective surface for sifting application. Non-conductive warp threads. Significant conductivity along weft direction only.



Plain weave with alternate weft construction: every second weft is made of conductive polyamide. Warp is entirely composed by nonconductive polyamide threads. Electrical conductivity is relevant along weft direction only.



# SAATIfil Conductive

Technical Data

Article	Electrical resistance	Mesh Opening	Open Area	Thread Material	Thickness	Weight	Available Width (**)
	Ω	μm	%		μm	g/m <sup>2</sup>	cm
PA-C 82/37	<1,00E+05	82	37	PA + Carbon	92	38	114, 131
PA+PA-C 510/45	<1,00E+04	510	45	PA + Carbon	330	106	160
PA+PA-C 402/38	<1,00E+04	402	38	PA + Carbon	405	124	160
PA-C 308/49	<1,00E+05	308	49	PA + Carbon	258	74	114, 131
PA-C 280/44	<1,00E+04	280	44	PA + Carbon	246	79	114, 131
PA-C 245/45	<1,00E+04	245	45	PA + Carbon	233	73	160
PA-C 205/40	<1,00E+05	205	40	PA + Carbon	237	85	160
PA-C 160/44	<1,00E+05	160	44	PA + Carbon	140	42	114, 131
PA-C 145/46	<1,00E+04	145	46	PA + Carbon	130	35	114, 131
PA-C 105/40	<1,00E+04	105	40	PA + Carbon	120	35	114, 131
PA-C 120/41	<1,00E+05	120	41	PA + Carbon	107	31	114, 131
PES-MET 38/31(*)	<1,00E+03	38	31	PES + Metal coating	48	25	114, 131
PES-MET 41/14(*)	<1,00E+03	41	14	PES + Metal coating	125	86	114, 131
PES-MET 105/52(*)	<1,00E+03	105	52	PES + Metal coating	63	25	114, 131

PA: Polyamide 6.6 monolament  
 PA-C: Carbon suused Polyamide 6.6 monolament  
 PES-MET: Metal sputtered Polyester fabric  
 Electric resistance Measurement  
 Reference Test method: DIN 54345 - part 5  
 Measuring instrument: custom device in accordance  
 with standard DIN 54345 - part 5 specifications

(\*) All polyester items available on demand  
 (\*\*) Different widths available on demand

# SAATIfil Conductive

Fabrication

SAATI manufactures sifting screens for all centrifugal sifter types, in a wide variety of designs.

Saatifil Centrifugal Screens are fabricated to give the best product for all specific needs.

Our Engineers can find out unique, customized solutions for a durable product and a consistent separation.

The ideal particle size and distribution together with the best seam can be chosen for each final application - sewn or welded seam, with or without cord -.









**SAATI S.p.A**

Via Milano, 14  
22070 Appiano Gentile (Co), Italy  
Phone: +39 0319711  
Fax: +39 031 933392  
E-mail: info.it@saati.com

**SAATI Americas Corp.**

201 Fairview St. Extension  
Fountain Inn, SC 29644  
Toll-Free: +1 800 431 2200  
Fax: +1 864 862 0089  
E-mail: info.us@saati.com

**SAATI Technical Fabrics (Tianjin) Co., Ltd.**

Cross Of Saida 2nd Branch Road  
and Saida Century Avenue,  
Xiqing Economic Development Area,  
Tianjin, China 300385  
Phone: +86 22 23960843  
Fax: +86 22 23962116  
E-mail: info.cn@saati.com

**SAATI Korea Ltd.**

22, Dangjeong-ro, Gunpo-si Gyeonggi-  
do, 435-833, Korea  
Phone: +82 31 429 9337  
Fax: +82 31 429 9338

**SAATI France**

74 Route de Bapaume 80360 Saily Saillisel, France  
Phone: +33 3 22 85 77 00  
Fax: +33 3 22 85 77 00  
E-mail: info.fr@saati.com

**SAATI Deutschland GmbH**

Ostring 22 46348 Raesfeld, Germany  
Phone: +49 2865 95800  
Fax: +49 2865 958010  
E-mail: info.de@saati.com

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