

Saatifil® Conductive

PRECISION FABRICS
FOR SCREENING & SHIELDING APPLICATIONS

SAATltech

Perfecting the Art of Precision filter fabrics



Saati production
and distribution facilities

SaatiTech is a member of the worldwide Saati Group of companies with a long history of manufacturing and distributing precision woven fabrics. Over the past six decades, SaatiTech has perfected the technology of manufacturing fabrics to a high degree of precision.

These include a broad range of fabrics for automotive, acoustic, medical, diagnostic, industrial filtration, chemical, electronic, appliance, sifting and milling applications and wherever there is a demand for filtration media, with an extensive selection of fabric types and mesh openings.

Every phase of production is carefully monitored, employing frequent in-house testing and rigorous inspection to ensure consistent quality. Our products are manufactured in accordance with ISO 9001 regulations assuring the best possible quality.

Unsurpassed customer support

With business offices and warehouses throughout the world, SaatiTech provides strong local support, expert response to customer inquiries and quick delivery to all locations.

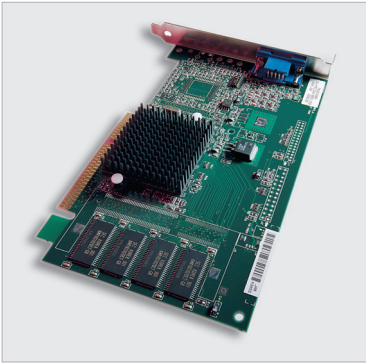
SaatiTech sales representatives and engineers are committed to the SaatiTech tradition of continuous innovation. They understand their customers' applications and offer the most appropriate product in a form that best meets their customers' needs.



High technology

Saatifil[®] Conductive

Filter Applications Overview



Electrical circuit



Sifting sleeves



Wearable strain sensors

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

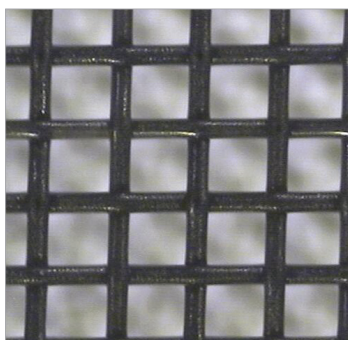
The electrical conductive fabrics can be obtained combining nylon to carbon suffused nylon conductive fibers or sputtering metal on polyester fabrics. The main functionalities are draining static charge and preventing the passage of electromagnetic fields.

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.

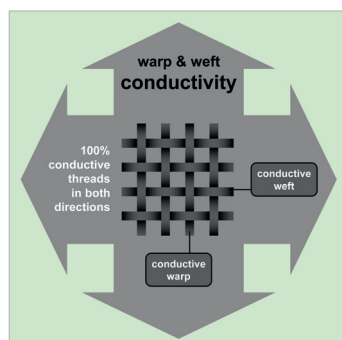
The Conductive product range is so the ideal choice for applications requiring high flexibility, good abrasion resistance and electrical conductivity.

Saatifil[®] Conductive meshes are fabricated to customers' exact specifications in UNI EN ISO 9001 certified facilities.

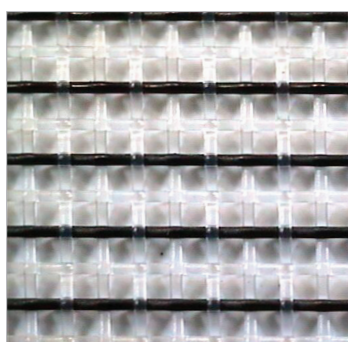
Mesh Construction



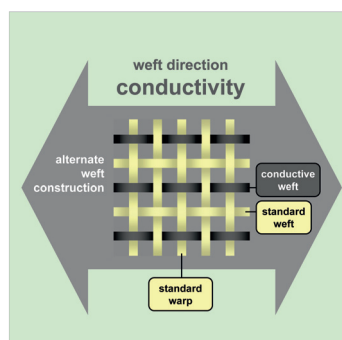
**SAATIFIL®
CONDUCTIVE
PA-C 127/50**



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.



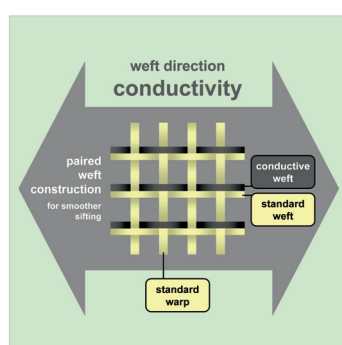
**SAATIFIL®
CONDUCTIVE
PA-C 245/45**



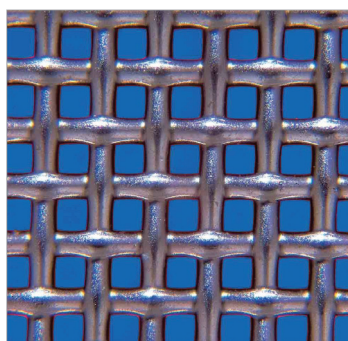
Plain weave with alternate weft construction: every second weft is made of conductive polyamide. Warp is entirely composed by non-conductive polyamide threads. Electrical conductivity is relevant along weft direction only.



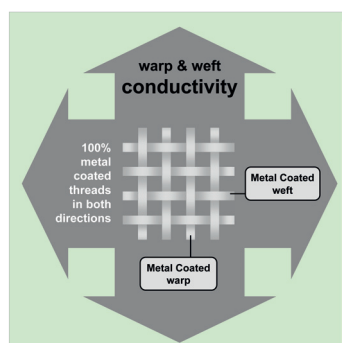
**SAATIFIL®
CONDUCTIVE
PA-C 510/45**



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.



**SAATIFIL®
CONDUCTIVE
PES-MET 105/52**



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

Fabrication

SaatiTech 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.

SaatiTech 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 -.

Product	Electrical Resistance	Mesh Opening	Open Area	Mesh Count Warp		Mesh Count Weft		Thread Diameter Warp	Thread Diameter Weft	Fabric Thickness	Weight	Available Widths (*)
	Ω	μm	%	n/cm	n/inch	n/cm	n/inch	μm	μm	μm	g/m ²	cm
PA-C 105/40	<1,00E+04	105	40	84	213	64	163	62 PA+2x44 PA	50 PA/50 PA-C	120	35	114; 131
PA-C 120/42	<1,00E+05	120	42	76,5	194	55	140	62 PA+2x44 PA	50 PA/50 PA-C	107	31	114; 131
PA-C 127/50	<1,00E+04	127	50	55	140	55	140	50 PA-C	50 PA-C	97	28	114; 131
PA-C 160/44	<1,00E+05	160	44	41	104	46	117	80 PA	80 PA/50 PA-C	140	42	114; 131
PA-C 205/40	<1,00E+05	205	40	31	79	31	79	120 PA	120 PA/120 PA-C	237	85	160
PA-C 245/45	<1,00E+04	245	45	27	69	27	69	120 PA	120 PA/120 PA-C	233	73	160
PA-C 280/44	<1,00E+04	280	44	23	58	25	64	140 PA	120 PA/120 PA-C	246	79	114; 131
PA-C 308/49	<1,00E+05	308	49	23	58	23	58	140 PA	120 PA/120 PA-C	258	74	114; 131
PA-C 402/38	<1,00E+04	402	38	16	41	28	71	195 PA	195 PA/120 PA-C	405	124	160
PA-C 510/45	<1,00E+04	510	45	13,5	34	26	66	220 PA	140 PA/120 PA-C	330	106	160
PES-MET 38/31(**)	<1,00E+03	38	31	150	380	150	380	27 PES-MET	27 PES-MET	48	25	114; 160
PES-MET 41/14(**)	<1,00E+03	41	14	90	230	90	230	64 PES-MET	64 PES-MET	125	86	114; 131
PES-MET 105/52(**)	<1,00E+03	105	52	69	175	69	175	40 PES-MET	40 PES-MET	63	25	114; 131

PA: Polyamide 6.6 monofilament
 PA-C: Carbon suffused Polyamide 6.6 monofilament
 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

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

Saatifil® Conductive

Technical Information Sheets

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