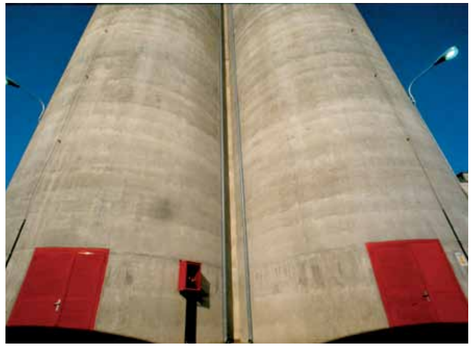
APPLICATIONS

Antistatic filter media are used in a wide range of industrial, chemical, metallurgical, mineral and agricultural applications where the dust and processes tend to build static and where a potential ignition source is present.



Food industry - processing of grains, sugars, corn, rice and other organic products

Animal feed industries - grinding, milling and drying

Pharmaceutical industry - solid finishing and wet filtration

Coal grinding for cement kilns and power plants

Chemical industry - drying, mixing, blending, compunding and coatings

testori®
TESTORI GROUP

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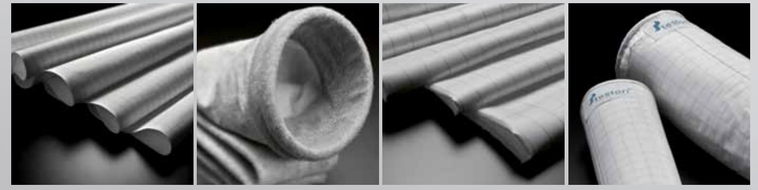
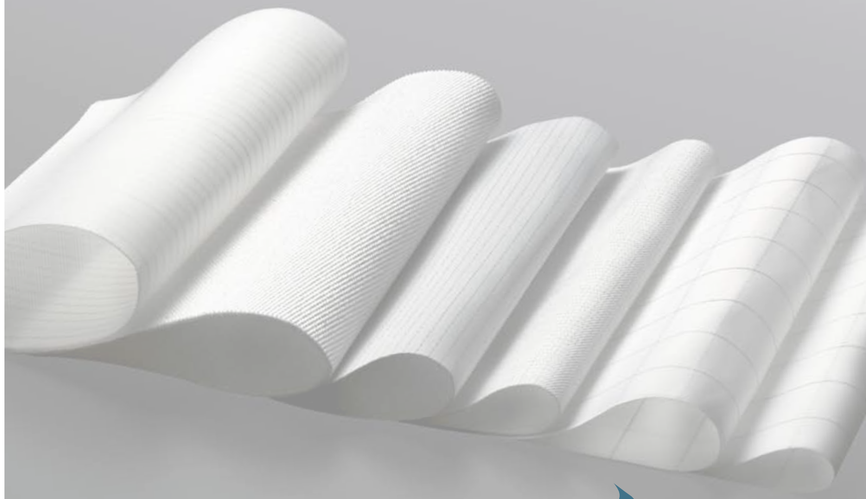
ANTISTATIC



FILTER MEDIA



GAS AND LIQUID FILTRATION

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Introduction

Statistical data regarding industrial accidents point out that 1 out of every 10 explosions is due to static electricity.

When powder particles with electric load are suspended in air-streams (i.e. pneumatic transport) it's important to verify the grounding of all metallic structures (all conveying lines, connected equipment, tube sheets and filtering media).

In dust collectors, the electrostatic load can grow both on filter media and on the dust cake, and it is facilitated by low moisture levels, high temperatures, high contact velocities and small particles. Materials like **wood powder, grains, sugar, aluminum, magnesium, fiberglass and carbon fiber could generate explosive conditions**; particularly if particle dimensions and other characteristics meet the criteria established in the CEI 31-5-6 classification.

To effectively conduct static from the inside of a bag house, it's necessary to use electrically conductive filter bags, made of felt with antistatic properties.

A further advantage of using **electrically conductive** filter media is to guarantee a complete dust cake release, which is generally hindered by the charge induced adhesion on the filter surface. Testori offers reliable **antistatic filter media designed to meet the most stringent requirements in terms of safety and filtration efficiency**.

Grains

Sugar

Wood powder

ANTISTATIC FELTS & FABRICS

Testori engineers antistatic properties in its filter media using:

- modified fibers (epitropic): with resistance in 10^6 Ohm range
- metallic fibers: mainly made from very fine stainless steel, guaranteeing a high level of conductivity and optimum antistatic properties. Resistance is generally lower than 10^3 ohm

The surface resistance of our antistatic products is always checked during production Quality Control processes and is also certified by **STFI** (an independent research and testing facility).

Finally, Testori provides "**ATEX**[1] compliance documentation for its antistatic felts and fabrics".

[1] ATEX 94/9/CE: European norm which regulates explosion risks and hazardous analysis, defines requirements of all devices used in explosive atmosphere and how to apply CE mark on all explosion-proof devices. This declaration is applied to the whole plant, because it has to observe the normative).

Epitropic felt bag

Antistatic fabric bags

Antistatic felt bag (with steel grounding)

TESTORI'S ANTISTATIC FELT AND WOVEN FABRIC PRODUCT LINE INCLUDES (main models):

	Testori code	Fibre	Weight g/m²	Air permeability @ 200 Pa l/dm² · min	Maximum surface resistance ohm
Needle Felt	TH 500 SA	Polyester	500	115	10^7
	TH 405 TTX	Polyester	480	65	10^7
	TW 400 SA	Polyester	400	170	10^4
	TW 500 SA	Polyester	500	120	10^4
	TW 550 SA	Polyester	550	70	10^4
	DW 600 SA	Acrylic	600	70	10^5
	DW 509 TTX	Acrylic	500	65	10^4
	XW 551 SA	Metaramide	550	200	10^4
	XW 553 TTX	Metaramide	560	65	10^4
Woven Fabric	TH 5211 S	Polyester	205	160	10^7
	TW 2201 TB	Polyester	240	80	10^4
	TW 6332 S	Polyester	265	220	10^4
	TW 6585 T	Polyester	585	30	10^4
	TW 6616 TC	Polyester	205	30	10^4
	PW 2657 TB	Polypropylene	560	15	10^4
	PW 6527 T	Polypropylene	500	80	10^5

Antistatic fabrics

Antistatic felt

Antistatic fabric