testori®
TESTORI GROUP



PHARMA INDUSTRY

LIFEtes
RELIABLE | SAFE | EFFECTIVE

INTRO

Always present in the pharmaceutical industry, **Testori** keeps pace with the technological advancement of this market with specific and innovative solutions.

Not only **investments and research** dedicated to product development, but also to the creation of a **white room** for **GMP production** (EC 2023/2006) to meet the most demanding requirements.

We supply high quality items for liquid filtration, drying and micronization processes of APIs, intermediates, excipients and other pharmaceutical products.

Testori offers complete **customer service**, from preliminary consultancy in the choice of filter media to its use and maintenance.

This allows to optimize filtration performances by improving production processes.

Our **vertically integrated production** and the high level of customization of the products lend Testori all necessary qualities to provide reliable and safe products.

Testori supports all types of customers: **manufacturers, machinery builders** (OEMs) and **end users.**



Our new **LIFEtes** product range offers fabrics and accessories **fully compliant** with the **requirements** of the European Community (EC 1935/2004 and EC 10/2011) and **FDA** (CFR 177).

Our **LIFEtes** products are also produced following a vertically integrated process and following the principles of GMP (EC 2023/2006), from filter media production to the packaging of the finished article in a **white room**.

Discover our products:

- **Filter bags:** p. 5
- **Octopus bags:** p. 6
- **Centrifuge filters:** p. 8
- **Disc filters:** p. 10
- **Fabrics and felts:** p. 11



LIFEtes fabrics and finisched products are accompanied by:

- Declaration of conformity for materials in contact with food (EC & FDA)
- Conductivity test on the filter medium and on the finished product
- Declaration of conformity with technical specifications
- Customized labels to ensure complete traceability of the product
- Dedicated single packaging
- GMP production from filter media to the finished product

LIFEtes advantages

	STANDARD QUALITY	LIFEtes
GMP for filter media	x	✓
EC 1935/2004	Depends on the filter media	✓
EC 10/2011	Depends on the filter media	✓
FDA (CFR 177)	x	✓
ISO 9001	✓	✓
Dedicated Packaging	x	✓
Labels (for selected products)	x	✓
Conductivity Test on filter (for antistatic material)	x	✓
GMP fabrication in white Room	x	✓

FILTER BAGS

Testori filter bags are designed by our specialists with scrupulous **attention to details** and made with **tailoring techniques** that ensure the absence of any possible source of contamination.

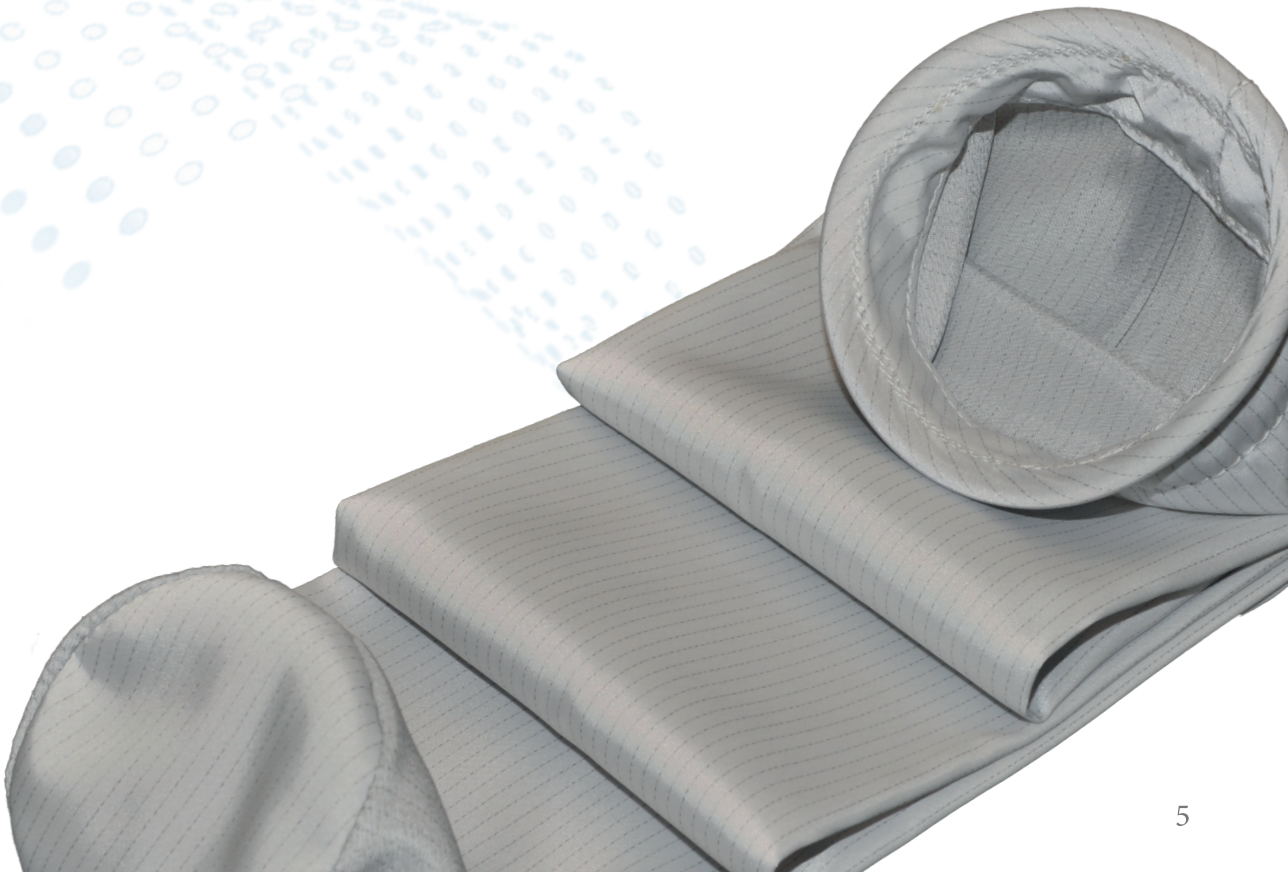
Antistatic fabrics and felts prevent the risk of explosion and allow effective detachment and recovery of the product.

The **flexibility in product customization** and the wide choice of fabrics and felts allows us to operate in **many stages of the pharmaceutical production process**, from drying to mixing, from transport to grinding, with successful solutions.

Features and Benefits

- Wide range of fabrics and felts with different constructions and permeabilities
- Availability of felts with microbifer and with microporous membrane in ePTFE
- Optimised fabrication to avoid any possible leakage
- Thermo-welded or stitched sleeves
- Possibility of taping seams
- Unique tailoring details

By choosing **LIFEtes** quality, you will benefit from a product composed of filter media and accessories respecting EU (EC 1935/2004 e EC 10/2011) and FDA (CFR 177) regulations. Our **LIFEtes** products are also produced following the principles of GMP.



OCTOPUS BAGS

In the drying, granulation and coating processes in a **fluid bed processor**, a high efficiency filtration system is often required to allow **total recovery of the powder** or granules, safeguarding the processed product from any possible contamination.

Testori produces high quality octopus bags, resistant and washable, able to ensure a high production capacity.

Testori octopus bags are also used in industrial **micronization processes** where the **active ingredient** or **excipient** is finely ground.
In these processes very small particles (<5 µm) are often achieved, requiring filter media with superior performance in retaining and recovering the finest particles to increase production yield.

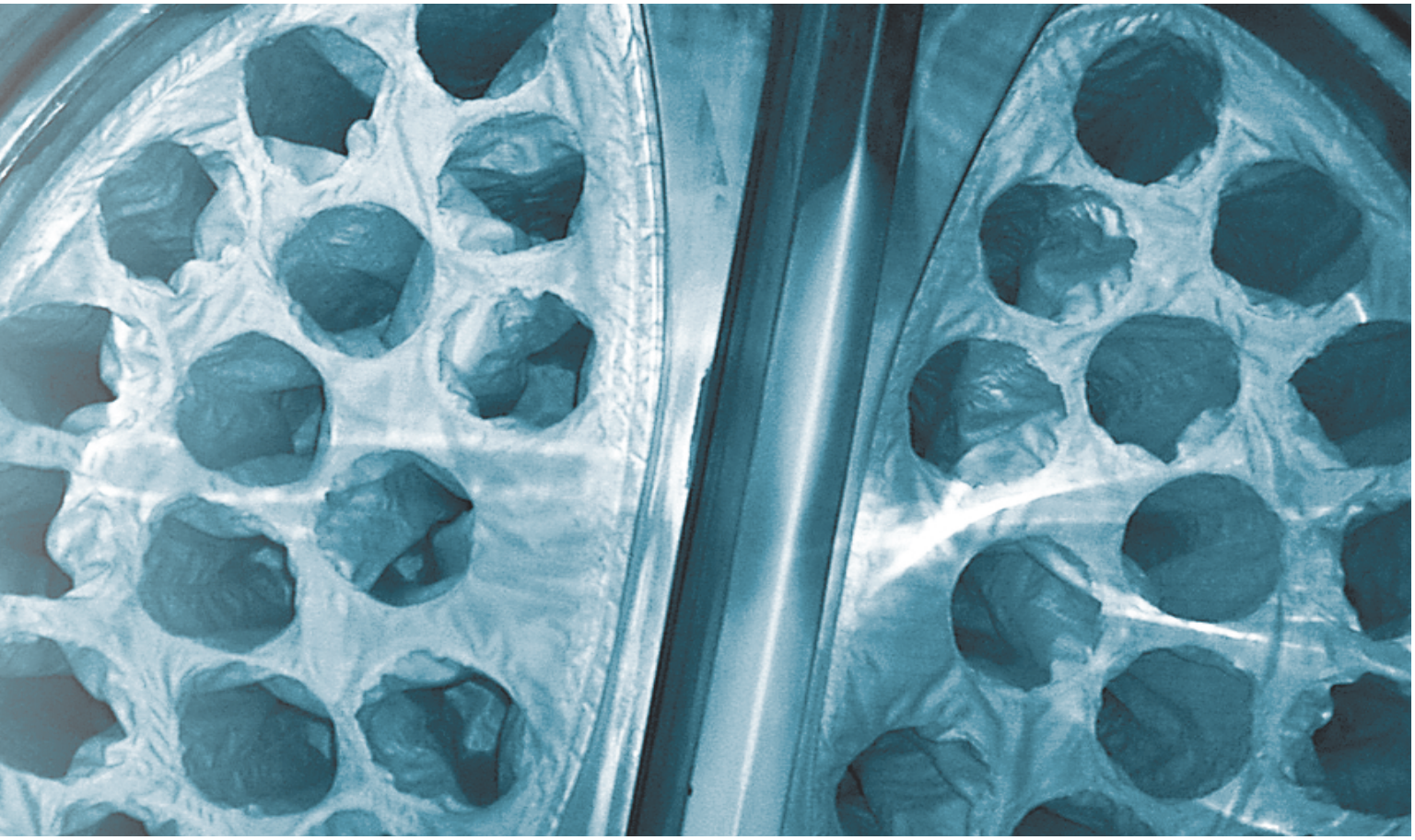


Features and Benefits

- Wide range of fabrics with different constructions and permeabilities
- Antistatic fabrics that prevent the risk of explosion
- Thermowelding capability for sleeve joints, reducing the risk of loss of the product
- Tailoring details that create safe, high performing products
- High filtration efficiency

By choosing **LIFEtes** quality, you will benefit from product composed of filter media and accessories respecting EU (EC 1935/2004 e EC 10/2011) and FDA (CFR 177) regulations.

Also, our **LIFEtes** bags, liners and inverting bags are entirely produced following GMP regulation (EC 2023/2006) - from material production to the final filter fabricated in white room.



CENTRIFUGES

Centrifuge filters are widely used in **pharmaceutical chemical industries** when, after the synthesis, the active ingredient is crystallized, isolated, and washed from the mother liquid.

The rotation provides a high centrifugal force that allows the **suspended solids** to settle on the inner surface of a drum covered by fabric, which play an essential role in the filtration process.

Testori produces filters for all types of centrifuge machines:

- **Centrifuge Bags**
- **Centrifuge Liners**
- **Inverting Centrifuge Bags**



Features and Benefits

- Wide range of fibers and fabrics with different constructions and permeabilities
- Antistatic fabrics are also available to prevent the risk of explosion
- Tailoring details that ease the installation
- Reduced shutdown
- High filtration efficiency
- Excellent panel detachment which grants a total recovery of the active ingredient (API)

By choosing **LIFEtes** quality, you will benefit from a product composed of filter media and accessories respecting EU (EC 1935/2004 e EC 10/2011) and FDA (CFR 177) regulations.

Our **LIFEtes** centrifuges are entirely produced following GMP regulation (EC 2023/2006) - from material production to the final filter fabricated in white room.



DISCS

Our **disc filters** fit Nutsche and Buechner filters, as well as all other machines equipped with disc filters whose filter septum is made of one or more discs in fabric.

Testori's product range represents a high-performance choice in many applications where API recovery and filtrate purity are the most important filtration parameters.

Laser cutting guarantees reliable and high quality products that perfectly fit the filter making installation quick and easy.

Features and Benefits

- Wide range of fibers and fabrics with different constructions and permeabilities
- Antistatic versions available
- Precise and clean cut of the product
- Total recovery of the active ingredient
- Easy installation and adaptation to the filter

By choosing **LIFEtes** quality, you will benefit from a product composed of filter media and accessories respecting EU (EC 1935/2004 e EC 10/2011) and FDA (CFR 177) regulations. Our **LIFEtes** products are also produced following the principles of GMP.



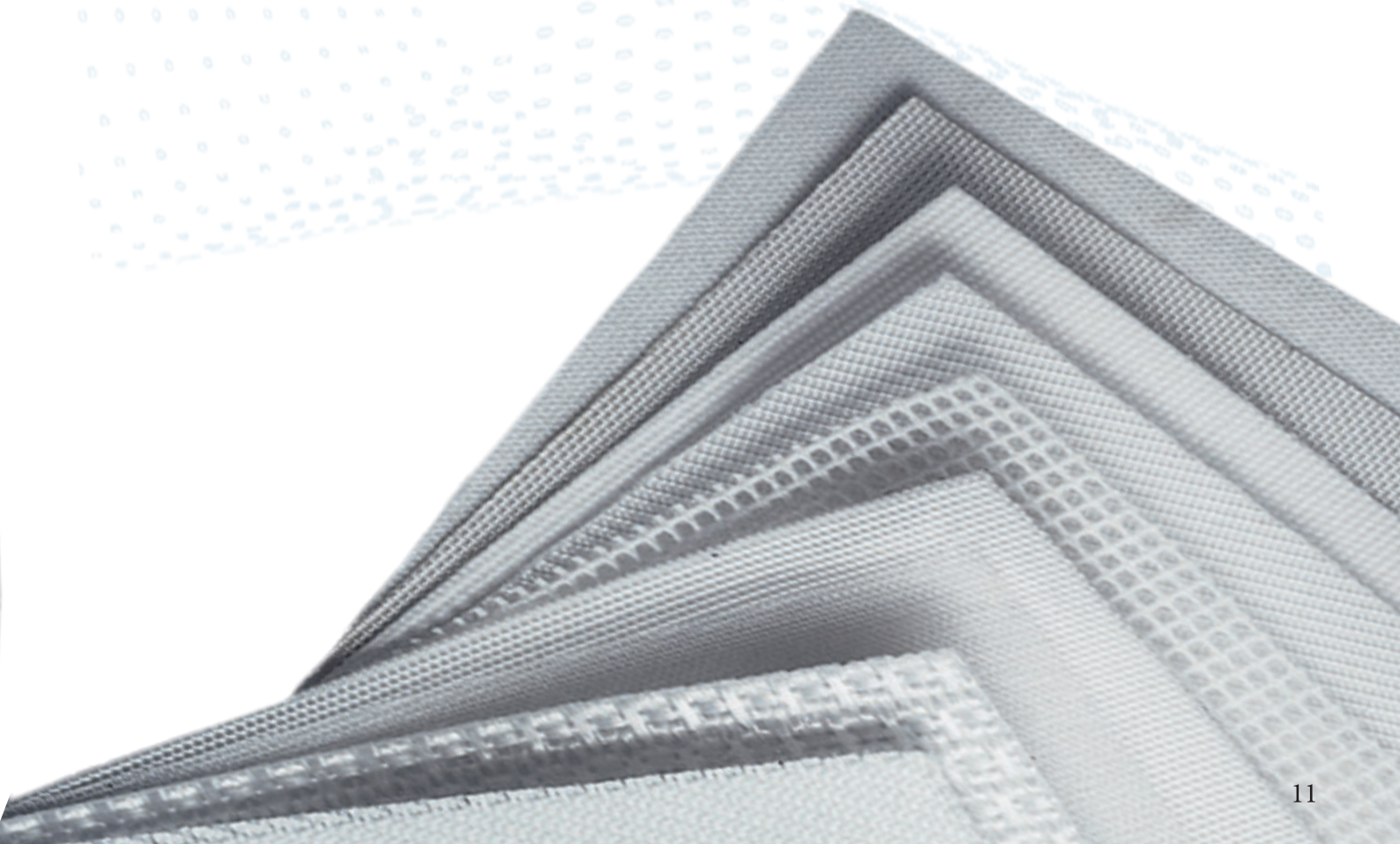
FABRICS & FELTS

In the headquarters in Novate Milanese (MI), Testori produces a wide range of **fabrics and felts** able to fully meet the needs of filter **manufacturers** for the pharmaceutical industry.

Our filter media have been developed by combining the **vertically integrated production** of technical fabrics and felts with a deep knowledge of pharmaceutical production processes.

Features and Benefits

- Wide range of fibers, fabrics and felts with different constructions and permeabilities
- Detailed analysis of the porometric distribution
- Declarations of conformity and test reports
- Internal R&D laboratory able to study the feasibility of new products
- Use of innovative yarns, including textured
- Compliant surface treatments safe for contact with food and pharmaceutical products



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