



SAATIdomus

Precision Woven Filter Fabrics & Components For Domestic Appliances

FOR THE MANY, BY THE FEW

—SAATI

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with
SAATI



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FOR THE MANY, BY THE FEW

SAATI produces many products for all types of markets that find their way into the daily life of billions of people. We are leaders in both process and microfiltration, screen printing, and personal and vehicular multi-threat protection products.

Over Ninety Years of Innovative Action

SAATI is a multinational group with corporate headquarters that have been situated in northern Italy since 1935. Today SAATI is a leading force in the development, manufacturing and commercialization of high tech filter media & 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 Polyester, Nylon, Polypropylene, PEEK and PPS are the ideal engineered solution for demanding microfiltration applications.

Through specialized processing and rigorous inspection, SAATI ensures consistent lot quality across tolerances, uniformity, strength, stability, and cleanliness for applications with pore sizes from 7 to 3,000 microns.

Perfecting the Art of Precision Woven Fabrics

With over 1,000 employees spread across multiple facilities worldwide, and a strong established track record in innovation and manufacturing excellence, SAATI's mission is to improve the life of every person every day – through working with both customers and partners to create a safer, healthier and cleaner world.

To guarantee product reliability, SAATI constantly runs tests and has all of the strictest and most up to date certifications that validate the consistency, performance, quality and characteristics of each item.

Specific SAATI fabrics are tested and certified in accordance with USP CLASS VI/ISO 10993 Regulations, and these fabrics are inspected and transformed into customized shapes in Class 10,000/ISO Class 7 Clean Rooms in accordance with UNI ISO 9001 regulations.

Customer Driven Innovation

Thanks to a direct presence in many countries, it is easy for customers to reach out, wherever they are located, and the response is always prompt. SAATI staff has a high level of technical expertise and dedication, and is always aiming to find the best solution for the customer's requirements.

SAATI sales representatives and engineers understand their customers' applications, working closely with staff in both the production and R&D departments to offer the customized solutions that best meets their needs.

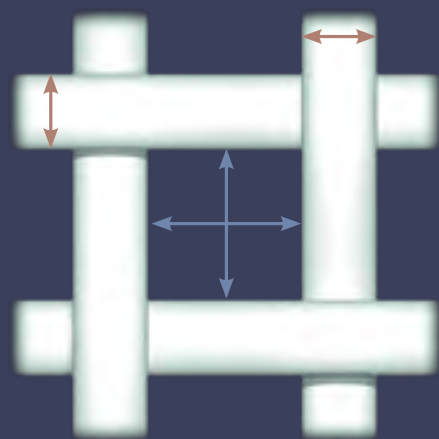
The quality of SAATI's products is backed by the dedication and expertise of SAATI's customer service. Thanks to offices, warehouses, storage and fabrication facilities throughout the world, SAATI provides strong local support, expert responses to customer inquiries, strong engineering capability, technical support and fast delivery around the world.



Focus on
Quality

SAATIdomus

The industry standard for both large & small domestic appliances



- mesh opening
- thread diameter

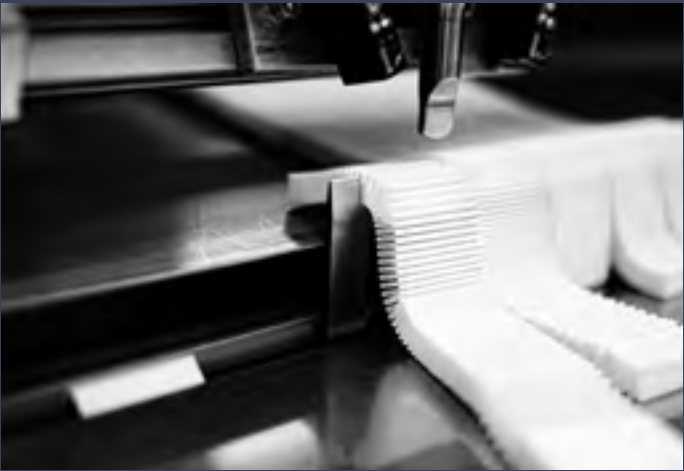
Fabrics Key Features

- Smooth monofilament fiber
- Available in synthetic (PA-PES-PP) fibers
- High open area (2-60%)
- Thickness (45-1100 micron)
- Consistent geometrical tolerances
- Excellent strength and dimensional stability
- Precise selective filtration
- Minimal pressure loss & high flow rates
- **Fully recyclable**

Focus on Quality

Each geometrical and physical property of the fabric is monitored throughout daily production. These measurements include:

- Mesh Opening
- Open Area
- Mesh Count
- Thread Diameter
- Mechanical Properties
- Thickness
- Weight



SAATIdomus Fabrics

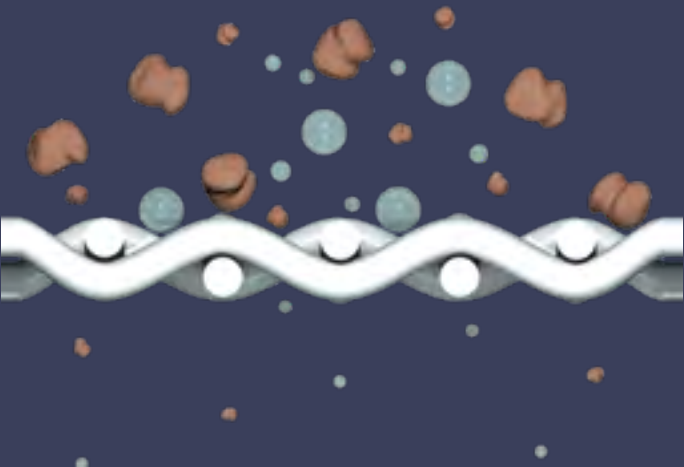
SAATIdomus is SAATI's dedicated line for both large and small domestic appliances, which includes an extensive range of fabric in polyester, polyamide and polypropylene, are manufactured in accordance with ISO 9001:2000 standards. SAATIdomus fabrics and components are used in products such as dryers, dishwasher, vacuum cleaners, kettles and coffee machines.

Unsurpassed Customer Support

The quality of SAATImil screening fabrics is backed up by the dedication and expertise of SAATI's customer service team. Thanks to dedicated offices, warehouses, storage and fabrication facilities located throughout the world, SAATI provides strong local support, expert responses to customer inquiries, strong engineering capability, technical support and fast delivery to every part of the globe.



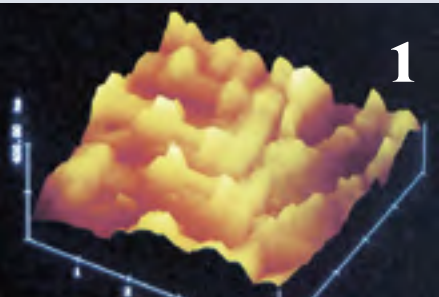
Every phase of production is monitored for quality



High flow rates with low pressure loss

Surface Treatments

In addition to the deep know-how in weaving, SAATI has unsurpassed experience in surface treatments, and knows how to finish the fabrics in order to enhance their mechanical performances, or to add further functional properties. Almost any surface treatment can be applied including customers own proprietary coating.



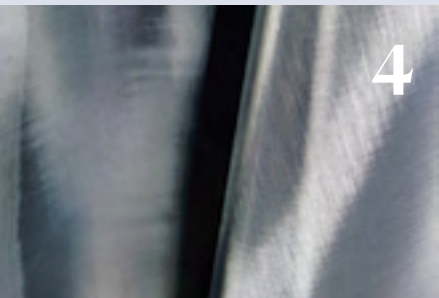
1

1. **Plasma Treatments** SAATI has pioneered the use of cold plasma to modify the screen fabrics surface properties. The plasma treatment increases the fabrics hydrophilicity making it far more wettable. This also enhances the bond of subsequent coatings and plastics while leaving the undersurface properties completely unaffected. The intensity of the treatment can also be modified to meet customers unique requirements.



2

2. **Hydrophobic Treatments** This PFAS-free treatment enables the separation of water from oil-based products such as fuels.



4

3. **Hydrophilic Treatments** Optimizes the wetting process of the fabric's surface in terms of speed and effectiveness.

4. **Metalization** Light, flexible polyester fabrics can be metalized with nickel, aluminum, titanium or other metals so that they reflect electromagnetic energy and dissipate static charges. Moreover the metalization enhances cosmetic features of the product itself.

5. **Dyeing** Fabrics can be dyed to virtually any color. They are used for computer anti-glare screens, fashion shoes, hand bags and racing car air filters. Food grade dyes can be used. Select one of our many standard colors or have one specially matched.



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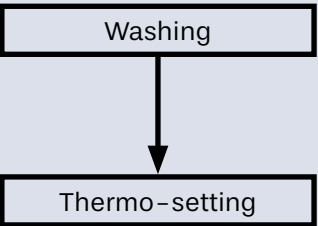
6. **Antistatic Finishing** An antistatic treatment can be applied to reduce the build-up of static charges often associated with synthetic fabrics.

In addition to these, we can study in partnership with the customers special different treatments according to specific application, needs and required performances.

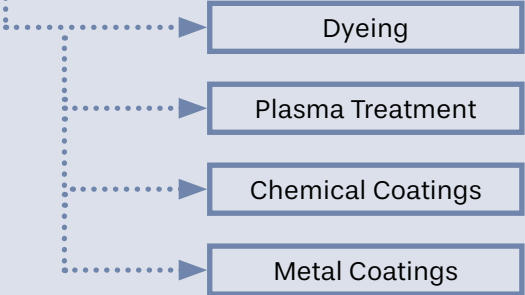


Finishing Process

Essential Processes



Supplemental Processes



Fabricated Components

SAATI not only designs and produces precision woven fabrics but has the ability to engineer them into finished or partly finished products. Thanks to processing equipment and long experience, SAATI provides fabrics cut-to-fit, lot-to-lot consistency and high quality custom fabricated parts, in almost any requested shape.

Ribbon

SAATIdomus fabrics can be economically slit using heat or, if a tighter tolerance and improved edge quality are needed, the fabrics can be ultrasonically slit.

Production Technology involved: Heat, Ultrasonics.



Tubes - Cut to Length

For all applications requiring molded cylindrical filters, SAATI offers fabrics tubes and rectangles with two open ends, cold or laser cut to length.

Many applications can accept the quality of a cold cut tube in view of its economic advantage.

On the contrary, if the component must have one end sealed and one end open, SAATI is able to combine the two technologies in the same process and supply tubes with one ultrasonically sealed end.

Ultrasonic technology is also applied to the realization of rectangle filters.

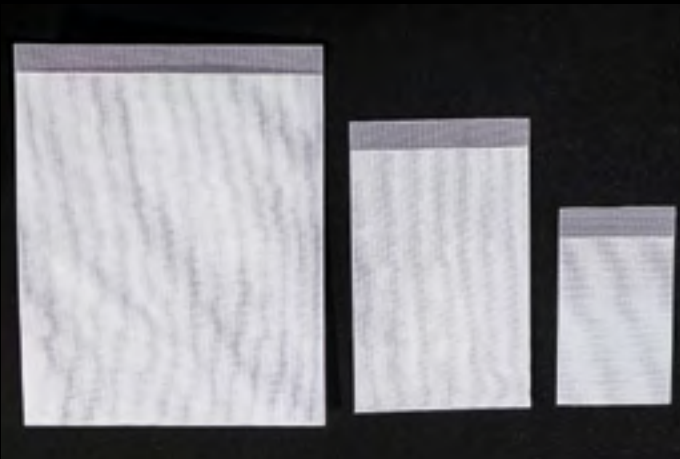
Production technology involved: Cold (Die-Cut), Heat, Ultrasonic.



Bags

SAATIdomus fabrics can be sealed on three sides with or without flaps to create bags and pouches that capture particles and material.

Production Technology involved: Heat, Ultrasonics.



Continuous Tubes

Two layers of filter media are simultaneously slit with heated blades to form a continuous tube.

Ultrasonically welded tubular ribbons, although similar in construction to heat slit items, can be produced in a wide range of sizes, including very small ones.

Two or more narrow layers can be attached using ultrasonic slitting, a fine filtration media can be supported or protected with a coarser one.

Production Technology involved: Heat, Ultrasonics.

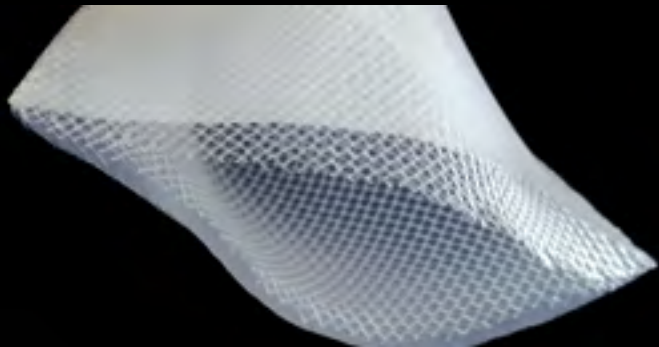


Fabricated Components

Multi-Layer Ribbon/Tubulars

Two SAATI fabrics can be supplied ultrasonically welded together to reinforce very fine filters or create a progressive filtration action.

Production Technology involved:
Heat, Ultrasonics.



Pleated Components

Mono or Multi-layer pleated components such as pack, ribbon and cartridges, can be manufactured for all applications requiring high filtration capacity in a narrow space.

Production technology involved:
Heat And Ultrasonics.



Shapes

Cold or Laser cut parts can be provided in almost any shape or size with nominal dimensional quality.

One or more layers of fabrics can be ultrasonically cut or sealed into virtually any shape using a CNC plotter, assuring a faithful reproduction of design.

Production Technology involved: Cold (Die-Cut), Ultrasonics, Laser.

Large Appliance

Tumble Dryers



Filtered Element: Lint
Solution: Monofilament Woven
Mesh: 100-300 um Opening
Mesh Polymer: PET/PP
Fabricated Part: Shapes
Benefits: Device Protection

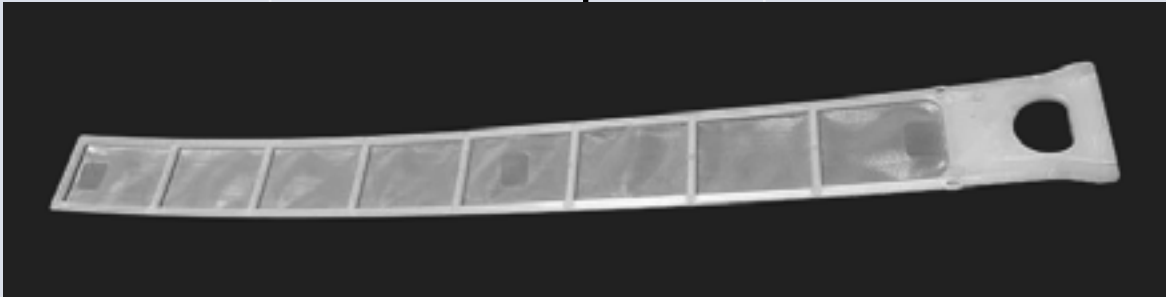


Large Appliance

Washer/Dryers



Filtered Element: Lint
Solution: Monofilament Woven
Mesh: 200–300 um Opening
Mesh Polymer: PET/PP
Fabricated Part: Shapes, Ribbons
Benefits: Device Protection



Large Appliance

Dishwashers



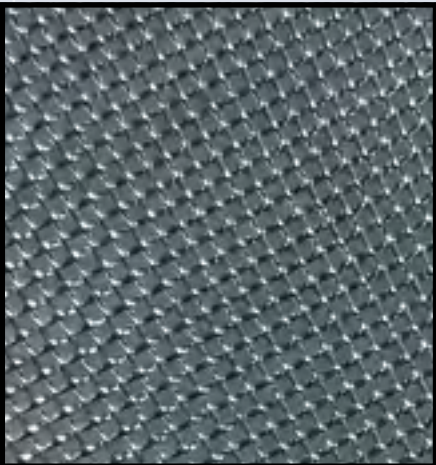
Filtered Element: Food waste
Solution: Monofilament Woven
Mesh: 300–350 um Opening
Mesh Polymer: PET
Fabricated Part: Tube
Benefits: Device Protection (Pump)



Small Appliance

Vacuum Cleaners

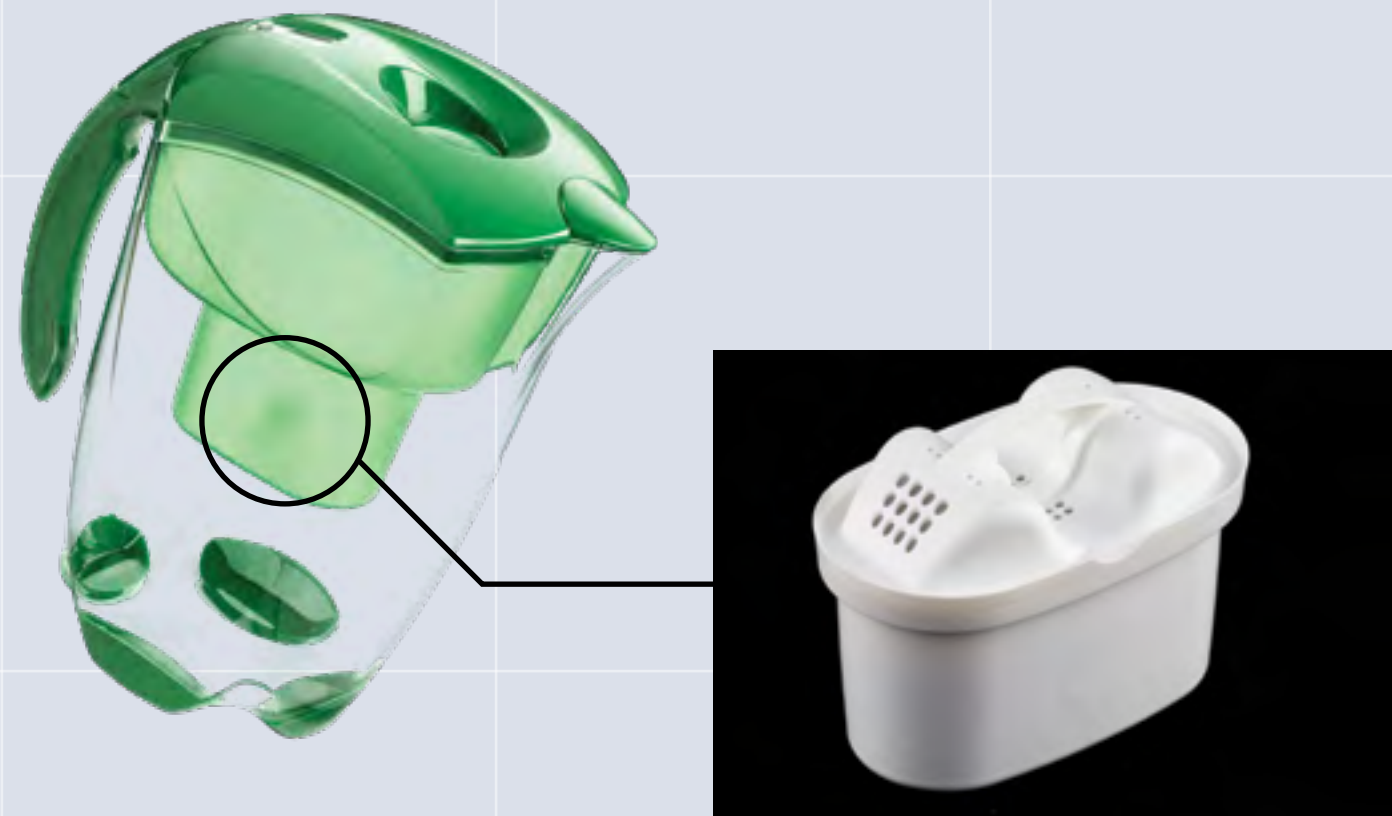
- Filtered Element:** Solid particles, dust
- Solution:** Monofilament Woven Mesh: 120–1000 um Opening
- Mesh Polymer:** PET, PA
- Fabricated Part:** Tube, Shaped Parts, Ribbon, Cone
- Benefits:** Device Protection (Pump), Filtration & Aesthetics



Small Appliance

Water Pitcher

- Filtered Element:** Limestone & particles
- Solution:** Monofilament Woven Mesh – 105 um Opening
- Mesh Polymer:** PET, PA
- Fabricated Part:** Tube, Shaped Parts, Ribbon, Cone
- Benefits:** Device Protection (Pump), Filtration & Aesthetics



SAATI

Small Appliance

Coffee Machines

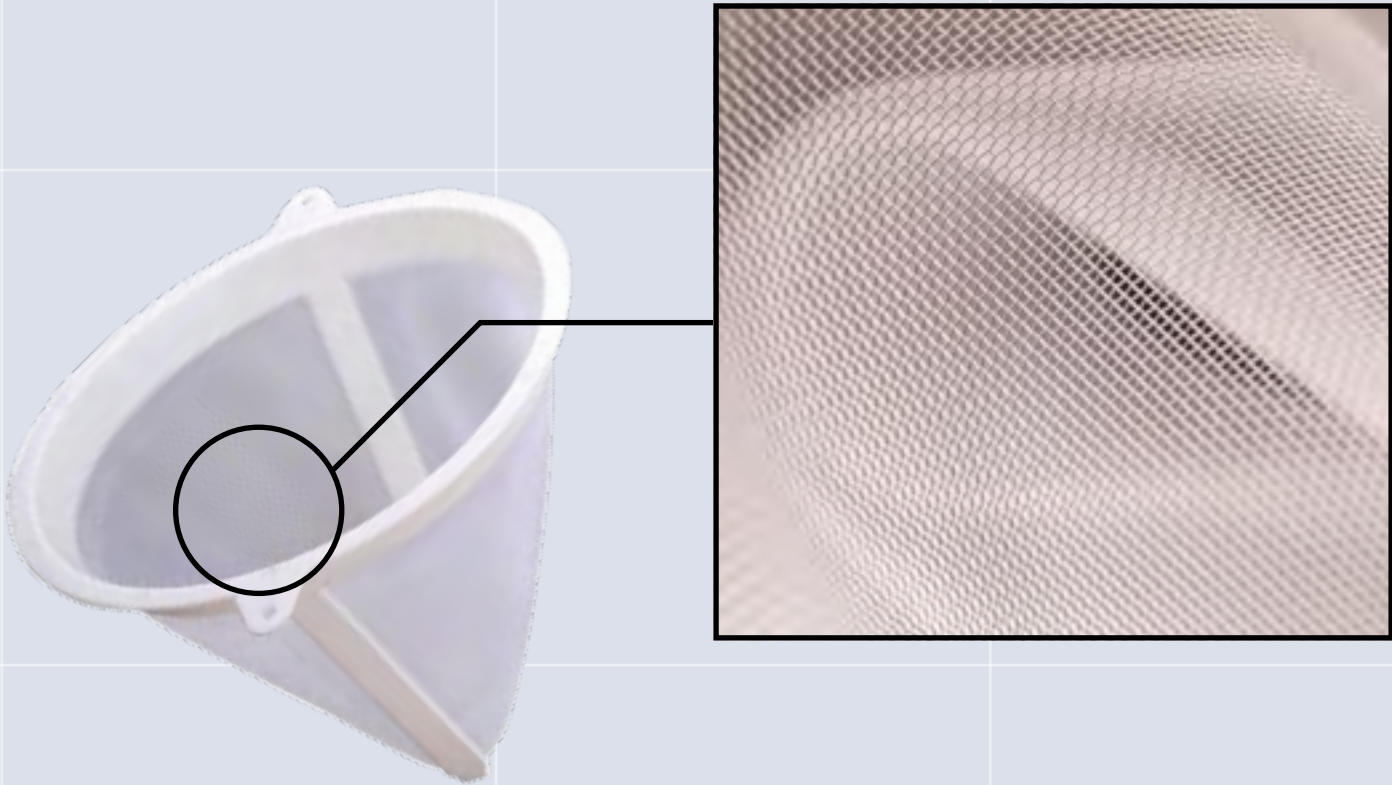
Filtered Element: Particles
Solution: Monofilament Woven
Mesh: 150–250 um opening
Mesh Polymer: PET
Fabricated Part: Tube, Tubular ribbon
Benefits: Device Protection (Pump)



Small Appliance

Coffee Filters

Filtered Element: Brewed Coffee
Solution: Monofilament Woven
Mesh: 50–100 um opening
Mesh Polymer: PET
Fabricated Part: Disk, Shaped Parts
Benefits: Flavor Improvement



Small Appliance

Inkjet Cartridges

Filtered Element: Particles
Solution: Monofilament Woven
Mesh: 7-18 um opening
Mesh Polymer: PET
Fabricated Part: Heat-slit ribbons,
Benefits: Clog Prevention



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Take notes before you contact your [Local SAATI rep](#)

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SAATI is Social

Contact SAATI



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