



# ASTERION® MICROFILAMENT CLEANROOM WIPE

#### PATENTED TECHNOLOGY FABRIC MADE OF 100% MICROFIBER STRUCTURE





## **ASTERION®**

- Subsidiary company of Mogul, with focus on developing and marketing consumer products made of microfilament fabric Madaline <sup>®</sup>
- Mogul is a Turkish-based family-owned international nonwoven manufacturer, with 5 facilities in Gaziantep and Luleburgaz
- A top global 40 nonwoven company, with 130 million USD sales in 2020
- Asterion has a warehousing and converting capabilities in the center of Istanbul
- Major technologies; spunbond, spunlace, meltblown and composite
- Certified by ISO 9001, ISO 14001, OHSAS 18001, ISO 13485, ISO 22716 and ISO 5000











#### **MADALINE® FABRIC TECHNOLOGY**

- Mogul launched Madaline<sup>®</sup> fabric in new Luleburgaz facility in 2016
- US patented technology Bi-component PET/PA6 microfilament hydro-entangled
- Microfilament size down to 0.2 denier, 100 times thinner than human hair
- Eco-friendly manufacturing process
  - One-pass process from polymer chips to fabric
  - Without adding binder, solvent, PVC, and finishes





#### Splitting process of segmented-pie filament into microfilament



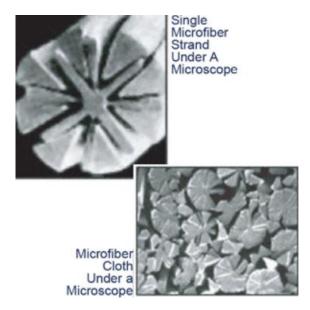


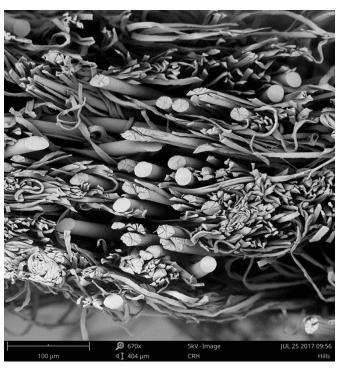
## **MADALINE® FABRIC UNIQUE PROPERTIES**



#### COMES FROM THE MICROFILAMENT DESNSE AND MICROPORE STRUCTURE

- Softness microfilament nature
- Liquid/moisture management Capillary action instantly absorbs water
- Quick drying large internal surface area promotes drying process
- Durable and machine washable
- Non-linting endless microfilament
- No fraying edge hydro-entangled microfilament dense structure



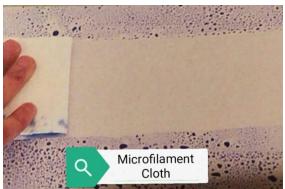


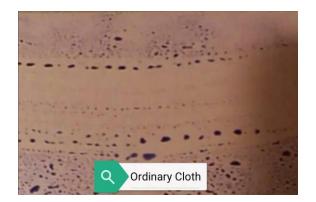


# **ASTERION® MICROFIBER PERFORMANCE CLEANING CLOTH**

- High water absorption rate microscope capillary effect and hydrophilic treatment
   2 3 times faster than terry towel and microfiber cloth
- Good water absorption capacity 4 times of cloth weight
- Non-linting good for glass, stainless steel and high demand cleaning surface
- Contionuous filament technology yields non-fraying edges
- Soft good for dedicate surface
- No scratch no cloth edge sewing
- Smear free and streak-free
- Light weight easy rinsing and water saving
- Low friction reduce stress on hands and arms of cleaner
- Fast dry energy and cost saving
- Cost effective one pass manufacturing process from polymer to base fabric
- Highly resistant against chemicals (surfactant, disinfectants, etc.)
- Durable and machine washable
- Skin-friendly No harmful chemicals added









## **ASTERION® ADVANTAGES**



	Asterion <sup>®</sup> Cloth
Cloth made of	Endless microfilament
PET/PA6 ratio	70%/30%
Water Absorbency rate	High
Linting	Extremely low linting
No scratch	Yes
Smear free	Yes
Streak free	Yes
Dry up time	High
Low friction	Yes
Light weight	Yes
Water and energy saving when washing	Yes
Fiber/filament finish	No
Manufacturing process	One pass

powered by MOGUL

#### **ASTERION® CLEAN ROOM WIPE**

- Convenient to use all in industrial applications
- With its endless microfilament structure, non-linting
- No harmful chemicals
- Multipurpose and Cost-Effective
- Absorbent Feature

"The Asterion<sup>®</sup> wipers are designed for HACCP standards, where non-lint and use of chemicals are required and to prevent food contamination incidents by ensuring the conveyors, quickly and effectively cleaned. "









### **CERTIFICATES & TESTS,**

LINTING IN THE DRY STATE

UN-EN ISO 9073 & UN-EN 13795;

Requirement:  $\leq 3,5$ 

Result: 2,44

According to the Aitex (Textile Research Institute) Test number: 2017TM0753, our product is lint free and İt has low contamination risk.

#### RESULTS

#### LINTING IN THE DRY STATE\*

Standards UNE-EN ISO 9073-10: 2005 ; UNE-EN 13795:2011+A1:2013

Number of specimens

5 each side

Reference: MADALINE PRODUCT

#### Side A and B

	AV	ERAGE VALUE	S	
Periode	3 µm	5 µm	>10 µm	summation > 3 µm
1	68	4	1	73
2	90	7	1	97
3	101	4	0	105
4	101	3	0	104
5	96	3	0	100
6	99	3	0	101
7	103	2	0	105
8	96	3	0	98
9	95	2	0	97
10	97	2	0	100
Total	946	32	2	980
Total-Co	922	30	2	954
Standard deviation	158	16	1	173
CV	17	53	75	18
Particulate Matter Coefficient IPM	2,41	1,16	0,15	2,44
Coefficient off Linting CL	2,96	1,48	0,23	2,98

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Due to the requirements of the UNE-EN 13795:2011+A1:2013, the results obtained should be inside the values in the following table , based on the application of the product:

Table 1 and 2 - Characteristics for evaluation and performance requirements for surgical gowns and drapes

		Requirements Standard Performance High Performance			
Parameters	Unit	Critical area	less critical area	Critical area	less critical area
Cleanliness - Particulate matter	IPM	≤ 3,5	≤3,5	≤ 3,5	≤3,5
linting (particulate emissions)	Log <sub>10</sub> (pelusa contada)	≤ 4,0	≤4,0	≤4,0	≤4,0

powered by





### **CERTIFICATES & TESTS**

- Oeokotex Standard 100
- Safe For Food Use
- TSE Antibacterial
- Ekoteks Lab Antibacterial
- UL Lab Cleaning Performance
- Non Linting Report En13795
- Density Loose, Fiber Carry Off





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			Decla	ration of C	Compliance
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# **THANKS FOR YOUR ATTENTION!**

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**MOGUL** Diversity in Nonwovens