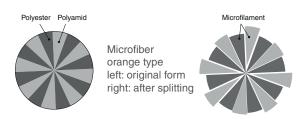
SONIT[®]-MDH



Knit wiper for precision cleaning

Made in Germany

Sonit[®]-MDH is a heavy knitted fabric made of ultra-fine multifilament yarn. It is suitable both for the removal of heavy impurities and for the finest precision cleaning tasks. The slightly textured bicomponent yarn makes the fabric soft and supple, which optimally adapts to the surface during the cleaning process. It is also very absorbent for solvents. The relatively high surface weight gives the cloth a pleasant haptic impression. By means of a multi-stage decontamination process, the particulate and chemical impurities are largely removed from the knitted fabric. Sonit[®]-MDH is the ideal cleaning product for a variety of applications of precision cleaning in the manufacturing environment of clean working.



Characteristics

knitware from two-component multifilament yarn

Features

very high cleaning effectiveness (93%), high surface mass (265 $\mbox{g/m}^2)$

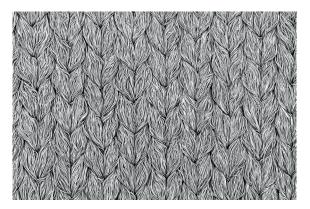
Application

precision cleaning of sensitive surfaces

General technical specification

Textile construction	knitware
Mesh / cm ²	400
Cutting	laser beam
Possible decontamination	nonionic surfactant
Decontaminated	yes
Washable	not recommended
Sterilisable	possible
Stat. Quality control	yes

The structure of this cloth is clearly visible at the adjacent photomicrograph (Zeiss Axioskop V16). Due to the bulky structure and the high number of cavities, a sufficient liquid intake is achieved. Thus, the knitted fabric can also be adapted to uneven surfaces during the wiping process. The large number of fibrils ensures that the Sonit[®]-MDH can remove the highest degree of particulate, greasy and liquid contamination from the surface of the object.



SEM photo Yuko Labuda, image height 3 mm



General technical data

Value	Unit	After method	
0.72	mm	ISO 9073-2	
265	g/m²	ISO 9073-1	
775	N	ISO 9073-3	
375	Ν	ISO 9073-3	
84	mm	ISO 9073-3	
226	mm	ISO 9073-3	
	0.72 265 775 375 84	0.72 mm 265 g/m² 775 N 375 N 84 mm	

Particle release data	Value	Unit	After method		
Labuda-Cleaning efficacy based on oil film MULTIDRAW KTL N 16	92.9	%	C&C-W-RE		
Particle residue (Particle > 0.5 μm) after wiping on surface Rz 5 μm	5.4	k-Part/cm ²	C&C-W-PF-S		
Particle residue (Particle > 0.5 μm) after wiping on surface Rz 39 μm	7.7	k-Part/cm ²	C&C-W-PF-S		
Air particle release (at 40% relH) by Labuda Fulling Simulator Mk1	102	Part 0.5 µm/ min			
Cleanroom class according to ISO 14644-1	Cleanroom consumables cannot be specified for air purity classes (see VDI 2083 - sheet 9.2).				

Water absorption (DI water)	Value	Unit	After method
Total	555.6	g/m²	
Average absorption rate in 5 s	0.5	g	C&C-W-AK-R
Average absorption rate in 60 s	0.87	g	C&C-W-AK-R
Drop absorption time	734	ms	C&C-W-EZ
DI-Water after wet wiping	5	%	C&C-W-RF

Chemical resistance Charge of break-load (long) after 2.5 min immersion into various solvents	Value	Unit	After method
Dry	775	N	C&C-W-CF
Water	-4	%	C&C-W-CF
Isopropyl	-3	%	C&C-W-CF
Acetone	-6	%	C&C-W-CF

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SONIT[®]-MDH

Ammonium

0.311

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Strontium

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Triboelectric at 40% relH a	ity and room temp	erature	Va	Value Unit		After method		
Discharge after 60 s			9	9.6 %		CC-W-TE		
Anion and ca	ation inventor	y in ppm mea	surement wit	h capillary elec	trophoresis			
Chloride	Fluoride	Nitrate	Nitrite	Phosphate	Sulphate			
0.1	1.011	0.114	0.084	0.118	0.045			

Lithium

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Magnesium

0.073

Sodium

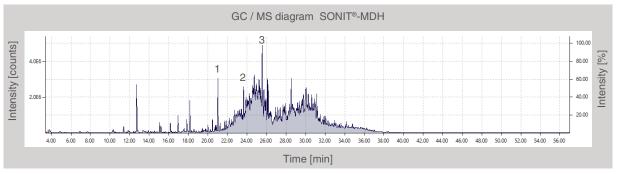
0.102

All data in this sheet are based on measurements taken at the time of their issuance. The publication of this document does not constitute a guarantee for the continued compliance with these data. On request, you will receive current data and tolerance limits from our laboratory. Subject to change without prior notice. Errors and omissions excepted. Clear & Clean is a company certified according to the EN ISO 9001 : 2015 standard. The quality assurance measures are described in our quality manual. When the data contained in this data sheet are changed, no automatic alteration is made. Clean room consumable products cannot be classified according to a clean room class for air purity according to ISO-14644-1.

Potassium

0.094

SONIT® is a registered European Union trademark (No. 018305462) of Clear & Clean Werk für Reintechnik GmbH in Lübeck.



Outgassing at 90 ° C 1: tridecane 2: isodecyl alcohol 3: dodecanol

Order and packing information / single packs SONIT[®]-MDH

Calcium

1.135

Barium

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Туре	Dimensions in cm	Folding	Content pcs / pack	Packs per carton	Pieces per carton	Weight per carton in kg	Dimensions p. carton in cm
CC195	10 x 10	bulk pack	200	18	3600	9.5	48 x 29 x 29
CC197	40 x 40	flat pack	50	10	500	22	58 x 40 x 35
CC198	20 x 20	flat pack	50	30	1500	17.6	58 x 40 x 35

Order and packing information / special formats SONIT®-MDH

Туре	Dimensions in cm	Folding	Content pcs / pack	Packs per carton	Pieces per carton	Weight per carton in kg	Dimensions p. carton in cm
CC194D10	round Ø 10		50				
CC194D6	round Ø 6		50				

SONIT[®]-MDH



From yarn to hi-tech cleaning wipers



an industrial knitting machine



Example: our aquatic decontamination



knitted multifilament yarn as roll goods



our laser formatting for knit wipers



Example: cleaning optical components



our visual inspection and packaging in the ISO 5 clean room