SONIT™ MDM



Knit wiper for higher performance requirements

Precision cleaning wipers for critical applications are usually made of knitted fabric of polymer multifilament yarn. The number and diameter of the single fibrils of these yarns are precisely calculated and balanced to match the cleaning purpose. The cleaning efficiency of these high-tech wiping cloths depends on their mesh number and mesh width and also on the binding character of the knitted fabric. The

SONIT[™] MDM wiper is the basic product of the SONIT[™] product line. SONIT[™] precision wiping cloths are made of carefully decontaminated close-meshed knitted fabric using thin standard yarns. The edges of the wipers are laser-cut and thermally consolidated, procedures which considerably reduce the number of released particles and fibres. The laser-cut edge is only 0.5 mm thick. The wiper therefore does not have the disadvantage of products with wide, thermo-bonded edges which can scratch sensitive surfaces or cause groove marks.

SONIT[™] MDM wiping cloths are suitable for critical tasks when cleaning equipment and devices and for all cleaning tasks where only a small amount of particle residue may be left on the surface.

Characteristics

knitware from microfilament yarn, flat packs and bulk packs

Features

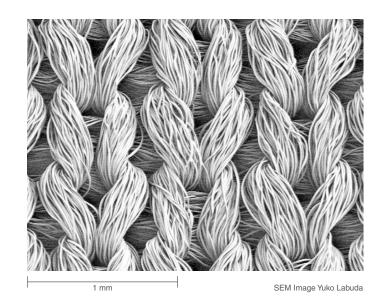
multiple decontamination, lasercutted edges

Application

for critical tasks in equipment cleaning for all cleaning, processes which require tow particle residue

General technical specification					
Textile construction	knitware				
Mesh / cm ²	360				
Cutting	laser				
Treatment	nonionic surfactant				
Decontaminated	yes				
Washable	yes, but not recommended				
Sterilisable	possible				
Stat. Quality control	yes				

The image on the right, taken with our scanning electron microscope, shows the soft open structure of this loosely knitted standard cloth. The yarn thickness of which is lower than that of some nonwoven wipers. Due to the application-defined quantity and spatial extent of its cavities, this cloth exhibits outstanding capillary Water absorption per time unit. The combination of these characteristics makes SONIT[™] MDM a valuable precision cloth for exacting requirements. Its use is recommended for applications where as little content of the wiper as possible may remain on the cleaned surface.



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General technical data			
Mechanical parameters	Value	Unit	After method
Thickness	0.52	mm	ISO 9073-2
Surface weight	147	g/m²	ISO 9073-1
Break load dry, longitudinal direction	259	Ν	ISO 9073-3
Break load dry, lateral direction	456	Ν	ISO 9073-3
Elongation at break, longitudinal direction	90	mm	ISO 9073-3
Elongation at break, lateral direction	83	mm	ISO 9073-3
Particle release data	Value	Unit	After method
Cleaning efficiency after Labuda measured with MULTIDRAW KTL N 16 oil	70.2	%	C&C-W-RE
Particle residue (Particle > 0.5 μm) after wiping on surface Rz 5 μm	4	k-Part/cm ²	C&C-W-PF-S
Particle residue (Particle > 0.5 μm) after wiping on surface Rz 39 μm	8	k-Part/cm ²	C&C-W-PF-S
Air particle release (at 40% relH) by Labuda Fulling Simulator Mk1	307	Part 0.5 µm/ min	
Cleanroom class according to ISO 14644-1	Cleanroc classes	om consumables cann	ot be specified for air purity
Water absorption (DI water)	Value	Unit	After method
Total	302.7	g/m²	
Average absorption rate in 5 s	0.31	g	C&C-W-AK-R
Average absorption rate in 60 s	0.47	g	C&C-W-AK-R
Drop absorption time	992	ms	C&C-W-EZ
Liquid residue after wet wiping	11	%	C&C-W-RF
Chemical resistance Charge of break-load (long) after 2.5 min immersion into various solvents	Value	Unit	After method
Dry	259	Ν	C&C-W-CF
Water	+9	%	C&C-W-CF
Isopropyl	+15	%	C&C-W-CF

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SONIT[™] MDM

0.04



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0.084

Triboelectricity at 40% relH and room temperature		Valu	Value Unit		After method			
Charge at 17 s	narge at 17 s		60.5	5 kV/m		CC-W-TE		
Charge at 17 s	s at 60 s		53.8 kV/m		kV/m		Ξ	
Discharge afte	er 60 s		11.2	2 %	CC-W-TE		-	
Anion and ca	tion inventor	y in ppm mea	surement with	capillary elect	rophoresis			
Chloride	Fluoride	Nitrate	Nitrite	Phosphate	Sulphate			
0.06	0.13	0.25	0.03	0.08	0.03			
Ammonium	Barium	Calcium	Potassium	Lithium	Magnesium	Sodium	Strontium	

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: 2008 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.

0.093

0.114

Order and packing information / single packs SONIT [™] MDM							
Туре	Dimensions in cm	Folding	Content pcs / pack	Packs per carton	Pieces per carton	Weight per carton in kg	Dimensions p. carton in cm
CC165J	10 x 10	bulk pack	200	15	3000	5.5	50 x 30 x 30
CC166P	23 x 23	bulk pack	50	30	1500	12.5	60 x 40 x 33
CC167P	40 x 40	flat pack	50	5	250	6.5	50 x 30 x 30

Order and packing information / Meisterboxen SONIT™ MDM							
Туре	Dimensions in cm	Folding	Content pcs / pack	Packs per carton	Pieces per carton	Weight per carton in kg	Dimensions p. carton in cm
CC6466-03	23 x 23	bulk pack	50	4	200	3.0	48 x 28 x 29

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