

Partially biodegradable, extra soft wiper

Made in Germany

The increased use of biodegradable materials made from renewable resources is an issue which concerns all of us. Here at Clear & Clean, we are contributing by developing precision cleaning cloths based on natural fibres. Our VISCOT® wiper is created with a high viscose content, enabling the cloth to biodegrade almost completely after some weeks in the ground. As a wiping cloth, VISCOT® is superior, because its soft material adapts the wiping surface closely and absorbs liquids at a fast rate. The long, ultra-pure viscose fibres have a diameter of  $<15\mu\text{m}$  and are water jet bonded. This state-of-the-art bonding technology gives VISCOT® good break load values, both longitudinally and laterally, without the use of chemical agents. The rapid absorbency of the viscose fibres makes VISCOT® an ideal dry wiping cloth which leaves minimal residue on the wiped surface. VISCOT® is indispensable for cleaning scratch-sensitive surfaces, wiping up water splashes fast or drying wet surfaces.

The adjacent SEM image shows how viscose fibres gained from natural cellulose in a sophisticated manufacturing process are now distributed homogeneously due to a swirl effect caused by water jet treatment. The very pale fibre with a tensile strength of about 25 cN/Text and a titre of 3...5 dTex is extremely soft and water absorbent. Future fibre generations will have tensile strengths of up to 45 cN/Text and a titre of 1 dtex. Considerable progress is anticipated in the field of wiper development in form of hydrophile fibres with high break load values. These fibres will be somewhat more expensive, but will exhibit less abrasion.

## Characteristics

soft nonwoven from Viscose-fibres, interfolded for use in dispenser boxes

## Features

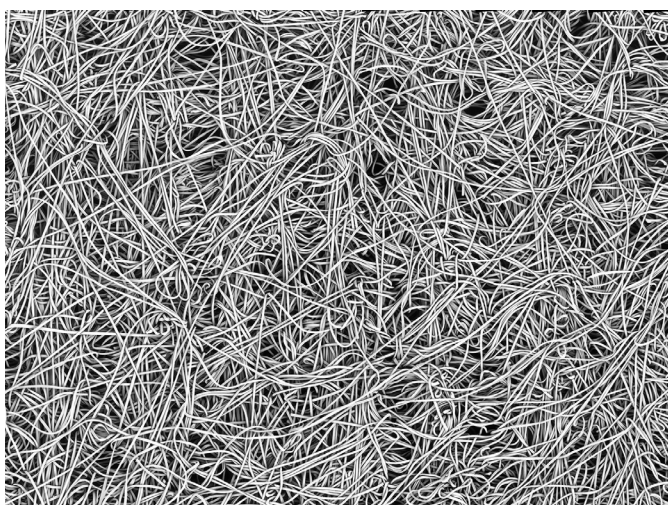
ideal dry wiper with outstanding absorbency, made from 100% decomposable fibres

## Application

very soft standard wiper for scratch sensitive surfaces

## General technical specification

Textile construction	nonwoven
Mesh / cm <sup>2</sup>	-
Cutting	mechanically
Treatment	none
Decontaminated	no
Washable	no
Sterilisable	possible
Stat. Quality control	yes



SEM photo Yuko Labuda, image width 3 mm

General technical data			
Mechanical parameters	Value	Unit	After method
Thickness	0.46	mm	ISO 9073-2
Surface weight	71	g/m <sup>2</sup>	ISO 9073-1
Break load dry, longitudinal direction	118	N	ISO 9073-3
Break load dry, lateral direction	63	N	ISO 9073-3
Elongation at break, longitudinal direction	26	mm	ISO 9073-3
Elongation at break, lateral direction	56	mm	ISO 9073-3
Particle release data	Value	Unit	After method
Labuda-Cleaning efficacy based on oil film MULTIDRAW KTL N 16	58	%	C&C-W-RE
Particle residue (Particle > 0.5 µm) after wiping on surface Rz 5 µm	5.44	k-Part/cm <sup>2</sup>	C&C-W-PF-S
Particle residue (Particle > 0.5 µm) after wiping on surface Rz 39 µm	8.64	k-Part/cm <sup>2</sup>	C&C-W-PF-S
Air particle release (at 40% relH) by Labuda Filling Simulator Mk1	6861	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	709.1	g/m <sup>2</sup>	-
Average absorption rate in 5 s	0.53	g	C&C-W-AK-R
Average absorption rate in 60 s	1.36	g	C&C-W-AK-R
Drop absorption time	28 / 27	ms	C&C-W-EZ
DI-Water after wet wiping	4	%	C&C-W-RF
Chemical resistance	Value	Unit	After method
Charge of break-load (long) after 2.5 min immersion into various solvents			
Dry	118	N	C&C-W-CF
Water	-43	%	C&C-W-CF
Isopropyl	+2	%	C&C-W-CF
Acetone	+6	%	C&C-W-CF

<b>Triboelectricity</b> at 40% relH and room temperature	<b>Value</b> (Side A / B)	<b>Unit</b>	<b>After method</b>
Discharge after 60 s	> 99 / > 99	%	CC-W-TE

**Anion and cation inventory in ppm** measurement with capillary electrophoresis

Chloride	Fluoride	Nitrate	Nitrite	Phosphate	Sulphate		
1.188	1.076	0.906	-	0.121	2.409		
Ammonium	Barium	Calcium	Potassium	Lithium	Magnesium	Sodium	Strontium
-	-	-	0.147	-	-	12.158	-

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.

**Order and packing information / single packs VISCOT®**

Type	Dimensions in cm	Folding	Content pcs / pack	Packs per carton	Pieces per carton	Weight per carton in kg	Dimensions p. carton in cm
CC443	24 x 22	Inter	50	100	5000	22.0	80 x 60 x 35
CC445	25 x 22	Inter	100	50	5000	24.0	80 x 60 x 45

**Order and packing information / Meisterboxen VISCOT®**

Type	Dimensions in cm	Folding	Content pcs / pack	Packs per carton	Pieces per carton	Weight per carton in kg	Dimensions p. carton in cm
CC6445-1	25 x 22	Inter	170	24	4080	42.0	60 x 60 x 36