

BEMCOT™ Wipers

M1, M3 and A2: ISO Class 4-5

Datasheet

Description

M1, M3 and A2 Bemcot Wipers are ISO Class 4-5 and made from Bemliese™, the 100% pure cellulosic nonwoven fabric derived from cotton linter. The Bemliese production process forms a pure nonwoven sheet by self-bonding continuous filaments with no binder or other additives. Manufactured in Japan by Asahi Kasei and the Ozu Corporation.

Benefits

Bemcot wipers provide a unique combination of key advantages using renewable natural cotton linter, including:

- Low particle generation
- High purity
- High absorbency
- High chemical resistance
- Anti-static
- Heat resistance
- Biodegradability
- Ecoefficiency



Eco Mark 04105042
JEA (Japan Environment Association)



Bemcot Wipers - The #1 Cleanroom Wiper in Japan used throughout many industries such as semiconductors, electronic screen printing, pharmaceuticals, automotive and aerospace, batteries, laboratories, solar panels, optics, and many others.

Product Packaging

	Material	Basis Weight (g/m ²)	Folds	Folded (cm)	Expanded (cm)	Sheets per Case
M1	100% Cellulose	27.5	4	7.5x7.5	15x15	6,000
M3	100% Cellulose	27.5	4	12.5x12.5	25x25	3,000
A2	100% Cellulose	27.5	2	22.5x23	45x23	3,000

Bemcot Advanced Properties*

- **Heat Resistance:** no degradation up to 260-300°C (depending on Bemcot product used)
- **Anti-Static:** Electrostatic discharge (ESD) of only 400V compared to 2-15 times better than polyester fibers, knit, and micro-knit
- **Ecoefficient and Biodegradable:** EcoMark 04105042 from JEA (Japan Environment Association)

Product Properties*

	Particles		Fibers	Water Absorption		Nonvolatile Residue (ppm)			Water Extracted Metallic Ion (mg/kg)				
	Dry >0.3 μm x 10 ² /CF	Wet >0.5 μm x 10 ⁴ /m ²	Fibers >100μm x m ²	Absorbent Capacity (ml/g)	Absorbent Rate (ml/m ² .sec)	Water	Acetone	IPA	Na	K	Ca	Cl	Zn
M1	30-50	1000-2000	2000-3000	14.6	120	400	40	50	25.0	1.5	<0.16	7.0	<0.16
M3	30-50	300	2000-3000	13.6	92	400	40	50	25.0	1.5	<0.16	7.0	<0.16
A2	30-50	1000-2000	2000-3000	14.6	120	400	40	50	25.0	1.5	<0.16	7.0	<0.16

*Test Methods:

Nonvolatile Residue Test - Wiper immersed in solvent 24 hours - acetone, water, IPA. Evaporate solvent and measure nonvolatile residue (ppm)

Heat Resistance Test - 250°C on hot plate for 20 seconds - Bemcot no change

Electrostatic Test - wiper rubbed across plastic plate for 10 sec at 20°C and 40% RH, measured ESP in accordance to JISL 1094B standard.

Water Absorption Test - (A) calculated from wiper weight before (Wi) and after (Wf) immersion in water for 30 sec followed by draining of free water. A = (Wi - Wf)/Wi

Particles Wet Agitation Test - wiper immersed in 300ml pure water, subjected to 15 min. ultrasound agitation, water filtered, and fibers remaining on filter counted

Fiber Particle Test - using IES-RP-CC004.3, Section 5.2

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