

BEMCOT™ Wipers

M1, M3 and A2: ISO Class 4-5

Datasheet

Exclusive from NetMotion, Inc.
Supplier for Intel, Applied Materials,
Seagate and many others

www.netmotion.com

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



www.netmotion.com/WIPER/Video_Benefits.html



Eco Mark 04105042
JEA (Japan Environment Association)

Product Packaging

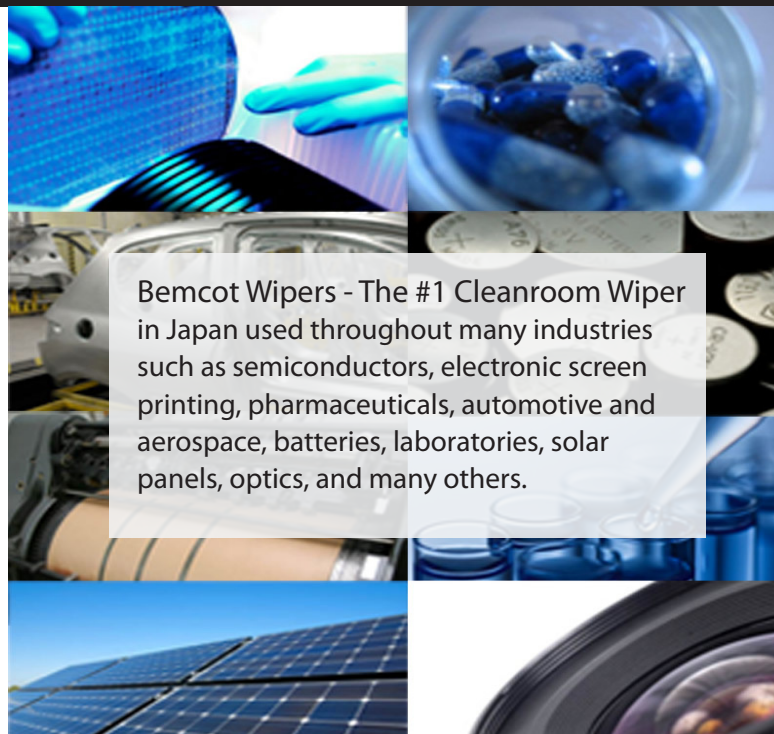
	Material	Basis Weight (g/m ²)	Folds	Folded (cm)	Expanded (cm)	Sheets per Case
M1	100% Cellulose	27.5	4	7.5x7.5	15x15	6,000
M3	100% Cellulose	27.5	4	12.5x12.5	25x25	3,000
A2	100% Cellulose	27.5	2	22.5x23	45x23	3,000

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



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.

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)



Contact

tel: +1.510.578.2808
fax: +1.510.743.4130
email: sales@netmotion.com
www.netmotion.com