

MicroSeal® HA

Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

MicroSeal® HA is an ultrasonically sealed edge cleanroom laundered wiper required for ISO Class 3 and above environments composed of 100% continuous filament polyester knit fabric.

This combination of properties provides MicroSeal® HA with the highest level of cleanliness, abrasion resistance and chemical compatibility required for ISO Class 3 and above environments and

applications requiring critical control of contaminants combined with superior performance.



Key Attributes

- 100% continuous filament polyester knit
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered & packed in ISO Class 4 cleanroom
- Economical bulk packaging available

Benefits

- Critically low particles, fibers, ions and non-volatile residue
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- High sorbency
- Combination of weight and caliper provide an excellent hand cleaning rough surfaces

Environmental

- High absorbency design reduces landfill waste impact when compared to more traditional heavier weight designs
- Complies with RoHS 2002/05 and REACH requirements

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing

Other ISO Class 3 and above knitted wipers

- Super Polx® SPSE
- Super Polx® SWSE
- Super Polx® LWSE
- Super Polx® 1009D
- MicroSeal® SuperSorb
- MicroSeal® 3000
- MicroSeal® 1200
- MicroSeal® VP
- UltraSeal® 3000
- ValuSeal® LP
- ValuSeal® HA
- ValuSeal® 1500

Value Pack Option

The value pack option provides the same great performance in a more economical bulk packaging format.

Pre-Wetted Option

The same wiper material can be provided in pre-wetted formats for reduced VOC emissions, increased convenience, increased productivity, improved solvent control and cleaning protocol repeatability and reduced costs.

Sterile Validated Option

For aseptic processing areas, the same wiper material can be provided in a gamma irradiated validated sterile to a 10⁻⁶ sterility assurance level. Dry and pre-wetted versions available.

Technical Data:

Attribute		Units	Value	Test Method
Basis Weight		g/m ²	140	TAPPI T-410
Caliper		µm	565	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.06	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	0.9	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.2
Sorbency	Capacity	mL/m	415	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	2.9	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.004	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.01	
Ions	Na ⁺	ppm	0.051	IEST-RP.CC004.3, Sec 7.2.2
	K ⁺	ppm	0.015	
	Ca ⁺⁺	ppm	0.048	
	Mg ⁺⁺	ppm	0.0001	
	NH ₄ ⁺	ppm	0.066	

Notes:

- All values are statistical averages.
- Due to differences in test methods applied and equipment utilized by different wiper manufacturers, valid product comparisons may only be obtained through side-by-side testing in the same test facility, under similar conditions.
- Third party testing can be performed upon request.

Order Information

Product	Number	Size	Shts/pk	Pks/cs	Style
MicroSeal® HA	MSHA.0909B.10	9x9" (23x23cm)	150	10	Bulk Pack
MicroSeal® HA	MSHA.0909.10	9x9" (23x23cm)	150	10	Stacked Pack

Other sizes and custom sizes are also available upon request.

For more information on our other contamination control products or technical consultation, please contact your Berkshire Sales Representative or e-mail: enquiries@berkshire.com.sg.

Other Berkshire products

For information on our other products, please click on the relevant text.



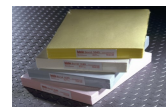
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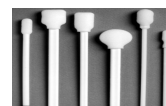
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