

## ValuSeal – HA<sup>®</sup>

### Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

ValuSeal – HA<sup>®</sup> 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 ValuSeal – HA<sup>®</sup> 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 and packaged in Berkshire's ISO Class 4 cleanroom

#### Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- High absorbency
- Low endotoxin levels
- Light weight, high absorbency material design reduces actual cost in use compared to heavier weight products

#### Environmental

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

#### Other ISO Class 3 and above wipers

- MicroSeal SuperSorb<sup>®</sup>
- MicroSeal SuperSorb<sup>®</sup> Lite
- UltraSeal<sup>®</sup> 3000
- MicroSeal<sup>®</sup> 1200
- MicroSeal<sup>®</sup> VP
- ValuSeal<sup>®</sup> LP
- ValuSeal<sup>®</sup> 1500

#### Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

#### 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<sup>-6</sup> sterility assurance level. Dry and pre-wetted versions available.

[www.berkshire.com](http://www.berkshire.com)

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## Technical Data:

Attribute		Units	Value	Test Method
Basis Weight		g/m <sup>2</sup>	136	TAPPI T-410
Caliper		µm	435	TAPPI T-411
Fibers	≥100µm	fibers/cm <sup>2</sup>	0.080	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 <sup>9</sup> /cm <sup>2</sup>	0.31	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m <sup>2</sup>	567	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	4.2	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m <sup>2</sup>	0.0042	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m <sup>2</sup>	0.0092	
Ions	Na <sup>+</sup>	ppm	0.41	IEST-RP.CC004.3, Sec 7.2.2
	K <sup>+</sup>	ppm	0.048	
	Ca <sup>++</sup>	ppm	0.035	
	Mg <sup>++</sup>	ppm	0.0085	
	Cl <sup>-</sup>	ppm	0.21	

### Notes:

- Technical data represented in this table are typical values at the time of publication. These should not be used as product specifications.
- 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
ValuSeal-HA®	VSHA.0909.8	9x9" (23x23cm)	150	8	Stacked
ValuSeal-HA®	VSHA.0909B.8	9x9" (23x23cm)	150	8	Value Pack
ValuSeal-HA®	VSHA.1212.14	12x12" (30x30cm)	75	14	Stacked
ValuSeal-HA®	VSHA.1212B.14	12x12" (30x30cm)	75	14	Value Pack

For more information on our other contamination control products or technical consultation, please contact your Berkshire Sales Representative or e-mail: [info@berkshire.com](mailto:info@berkshire.com)

## Other Berkshire products

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



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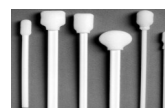
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