

PRODUCT DATA SHEET

DESCRIPTION

The Essence Silver Heavy Weight is a laser sealed-edge 100% continuous filament double-knit interlock polyester laundered wiper. Patented technology maximizes the sorbency capacity, exhibits low particles, low fiber counts, and provides an ultra-clean wiping material for critical applications.



FEATURES

Laser sealed-edge for superior cleanliness
Assures cleanliness with ultra-low levels of particulates and extractables
High absorbency and resists abrasion under rigorous use
Great value for Class 100 - 1,000 that require sealed edge

APPLICATIONS

Designed for use in Critical Environments - Class 100 - 1,000
Cleaning of surfaces to control submicron particles, fibers and chemical residue
Applications that require high sorbency

TECHNICAL DATA

PERFORMANCE CHARACTERISTICS

Basis Weight (<i>TEST-RP-CC 004.3</i>)	140 ± 5 gsm
Thickness	0.48 ± 0.02 mm
Absorbency (<i>TEST-RP-CC 004.3</i>)	
Sorptive capacity	388
Rate	0.5 sec

CONTAMINATION CHARACTERISTICS

Releasable Particles

LPC (≥ 0.5 um) (<i>TEST-RP-CC 004.2 SEC 5.2</i>)	5.6E+06/m²
APC Helmke Drum ≥ (<i>TEST-RP-CC 003.2</i>)	1764/m²
Fiber Analysis (>100 um) (<i>ASTM F311-312</i>)	75/m²

Nonvolatile Residue, NVR

(<i>TEST-RP-CC 004.2 SEC 6.1.2</i>)	
IPA Extractant (100 ml IPA at ambient temp for 24 hrs)	0.31 g/m²
DIW Extractant (100 ml DI water at ambient temp for 24 hrs)	0.004 g/m²

FTIR No Silicon Oil, Amide or DOP Detected

Ion Content

(*TEST-RP-CC 004.2 SEC 6.1.2*)

Chloride (Cl)	8 ppb
Nitrates (NO3)	11 ppb
Nitrates (NO2)	11 ppb
Sodium (Na)	21 ppb
Potassium (K)	10 ppb
Magnesium (Mg)	<1 ppb
Calcium (Ca)	3 ppb
Fluoride (F)	2 ppb

NOTE:

*Data shown are typical values and should not be used as specifications.

ORDERING INFORMATION

P/N	DESCRIPTION	PCS. / BAG	BAGS / CASE
ES 140-9	Cleanroom 100% polyester wiper laser sealed-edge, 140 gsm, Laundered, Size : 9" x 9"	150	10
ES 140-12	Cleanroom 100% polyester wiper laser sealed-edge, 140 gsm, Laundered, Size : 12"x12"	150	10