

### PRODUCT DATA SHEET

#### DESCRIPTION

The Essence Silver Standard 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  
Good 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  
Excellent cleaning wiper for dry or wet applications

#### TECHNICAL DATA

##### PERFORMANCE CHARACTERISTICS

<b>Basis Weight</b> ( <i>TEST-RP-CC 004.3</i> )	120 ± 5 gsm
<b>Thickness</b>	0.44 ± 0.02 mm
<b>Absorbency</b> ( <i>TEST-RP-CC 004.3</i> )	
Sorptive capacity	322
Rate	0.5 sec

##### CONTAMINATION CHARACTERISTICS

###### Releasable Particles

LPC (≥ 0.5 µm) ( <i>TEST-RP-CC 004.2 SEC 5.2</i> )	5.4E+06/m <sup>2</sup>
APC Helmke Drum ≥ ( <i>TEST-RP-CC 003.2</i> )	1776/m <sup>2</sup>
Fiber Analysis (>100 µm) ( <i>ASTM F311-312</i> )	75/m <sup>2</sup>

###### 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/m <sup>2</sup>
DIW Extractant (100 ml DI water at ambient temp for 24 hrs)	0.004 g/m <sup>2</sup>

**FTIR** No Silicon Oil, Amide or DOP Detected

###### Ion Content

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

Chloride (Cl)	8 ppb
Nitrates (NO <sub>3</sub> )	11 ppb
Nitrates (NO <sub>2</sub> )	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 120-9	Cleanroom 100% polyester wiper laser sealed-edge, 120 gsm, Laundered, Size : 9" x 9"	150	10
ES 120-12	Cleanroom 100% polyester wiper laser sealed-edge, 120 gsm, Laundered, Size : 12"x12"	150	10