

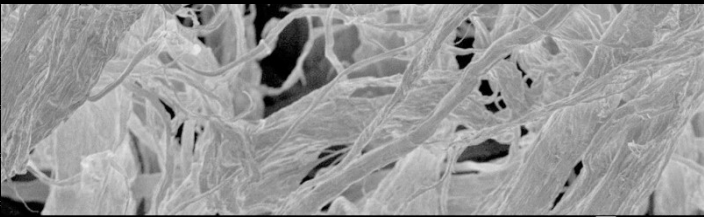


SHORT STUFF®

HIGHLY FIBRILLATED HDPE TECHNICAL DATA SHEET

Grade	ESS5F	ESS50F*	ESS2F	ESS20F*	E380F	E505F*	E620F	E780F	E990F	AU690F	
Average Length Expressed in millimeters (mm)	~0.1	~0.1	~0.6	~0.6	~0.5	~0.6	~0.65	~0.9	~1.0	~0.75	
Average Diameter Expressed in microns	5	5	5	5	15	15	15	25	20	-	
Surface Area (m²/gm) Measured by gas absorption	12	12	12	12	8	8	8	8	8	-	
* Treated for improved dispersion in water based systems											
Packaging	Packaged in multi-walled kraft bags.										
Lbs per Bag	15	15	15	15	15	15	15	10	10	15	
Bags per Pallet	50	50	50	50	50	50	50	75	75	50	
Melting Point	~135°C / ~275°F									~125°C / ~257°F	
Specific Gravity (g/cm³)	0.96									0.92-0.93	
Dispersibility	Dispersible in water or solvent based systems. Refer to mixing instructions for appropriate methods of dispersion.										
Dosing	Typical dosage ranges from 0.5 to 1.0% by total formula weight for most applications; suggested starting formulations are available upon request.										
Bulking Value	Metric	1.04~1.10 litres/kg -- .91~.96 kgs/litre				Mixing Instructions: 			Starting Formulations: 		
	English	0.1250~0.1319 gallons/lb -- 7.580~7.997 lbs/gallon									
CAS Number	9002-88-4										
Plasticity, Appearance, and Odor	Soft, flexible fibrils; white and fluffy with no odor.										
Moisture Content	Less than 2% residual moisture as packaged.										
Moisture Absorption	Does not absorb moisture.										
Effects of Bleaches and Solvents	Swells in chlorinated hydrocarbons at room temperature; soluble at 71-77°C / 160-170°F.				 x 330 1.00kV LEI SEM WD 14.8mm						
Effects of Acids and Alkalis	Excellent resistance to acids and alkalis, with the exception of oxidizing agents.										
Microbial Resistance	Not attacked by mold or mildew. Does not promote microbial growth.										
Durability	Resists aging and abrasion.										
Shelf Life	Up to and exceeding 5 years in appropriate storage conditions.										
Storage Recommendations	The product should be protected from extreme elements and kept dry while in storage. Avoid storing with heavy weight stacked or placed on top of the bags, which will cause the product to compact. Storage with or next to chlorine or chlorinated products is not recommended.										

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