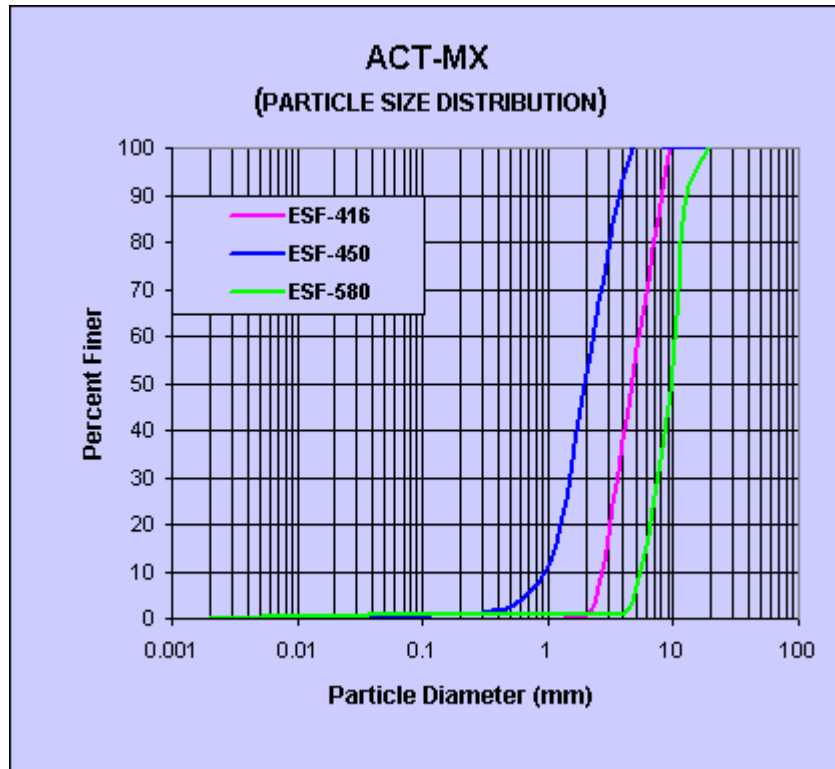




ACT-MX™ MEDIA PHYSICO-CHEMICAL PROPERTIES



Media	Particle Size Description (mm) <i>(d₁₀, d₅₀, d₆₀)</i>	Coefficient of Uniformity (C_u)	Specific Surface Area		Hydraulic Conductivity (cm/s)
			<i>S_{BET} (m²/g)</i>	<i>MIP (m²/g)</i>	
ESF-416	(2.75, 4.75, 5.40)	1.96	1.32	27.04	7.6
ESF-450	(0.95, 2.00, 2.36)	2.48	1.41	18.68	0.9
ESF-580	(5.50, 9.50, 10.10)	1.84	0.95	-	30.3



Media	Acid Solubility (%)	Caustic Solubility (%)	Moh's Hardness	Krumbrien (Sphericity)	Krumbrien (Roundness)
ESF-416	0.30	0.0	3	0.7	0.3
ESF-450	0.30	0.0	3	0.7	0.3
ESF-580	5.40	0.0	4	0.3	0.3

General Physical Properties of ACT - MX Media			
Property Test	Measuring Method	Test Method	Typical Design Value
Soundness Loss	Magnesium Sulfate	AASHTO T 104	<6%
Abrasion Resistance	L.A. Abrasion	ASTM C-131	<40%
Chloride Content	Chloride Content of Soils	AASHTO T 291	<100ppm
Compacted Bulk Density	Density Test	ASTM D 698 Modified	<70 lb/ft ³
Stability (Phi Angle)	Direct Shear or Triaxial	ASTM D 3080	35 - 45
Loose Bulk Density	Loose	ASTM C-29	Dry <50 lb/ft ³ Saturated <65lb/ft ³
pH	pH Meter	AASHTO T 289	7.0 - 10.0