GLASSFLAKE AgFlake

AgFlake 2035

Product Code: GFEAGF-2035

Technical Information

AgFlake functional conductive pigments are based on our thin borosilicate glass flakes which have an average thickness of 2 microns and are coated with high loadings of silver for improved conductivity and shielding properties.

Composition				
Ingredients	Composition	By Weight (%)	CAS No.	CI No.
Calcium Sodium Borosilicate	Glass	63 - 67	65997-17-3	-
Silver	Ag	33 - 37	7440-22-4	77820
Tin Oxide	SnO_2	<0.5	18282-10-5	77861

Nominal flake thickness (µm):	Uncoated	2.0	Coated	2.0- 2.5
Particle Size Diameter (µm):	Mean	Average 20	(By Malvern Mastersizer 2000S)	
Oil Absorption (g/100g):	Range	80 100	ASTM D281-12	

pH:	7.0 - 11.0	(10% Aqueous Suspension)
Loss on Drying:	<3% max	
Powder volume resistivity @ 15% RH (Ωm)	$1.6x10^{-1}$	

Trace Elements - Typical: (Glassflake Substrate)	Mercury (Hg)	2 ppm max	IEC 62321:2008 ICP-MS
	Arsenic (As)	5 ppm max	
	Lead (Pb)	5 ppm max	
	Cadmium (Cd)	2 ppm max	
	Barium (Ba)	50 ppm max	
	Antimony (Sb)	2 ppm max	
	Chromium (Cr)	10 ppm max	
	Nickel (Ni)	5 ppm max	
Microorganisms:	100 CFU/g max		No Pathogens

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