

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		Method C05-1:2009 ICP-MS (Complete Dissolution)	
	Arsenic (As)	5 ppm max			
	Lead (Pb)	5 ppm max			
	Cadmium (Cd)	2 ppm max			
	Total Barium (Ba)	50 ppm max			
	Antimony (Sb)	2 ppm max			
	Total Chromium (Cr)	15 ppm max			
	Nickel (Ni)	10 ppm max			
	Copper (Cu)	5 ppm max			
	Cobalt (Co)	2 ppm max			
	Selenium (Se)	2 ppm max			
Microorganisms:	100 CFU/g max			No Pathogens	

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This information is given in good faith without guarantee or liability. All values are approximate.