

GLASSFLAKE ASTRAL EFFECT SERIES

Moonshine® Astral® Gold Shimmer

Product Code: GFE-AGS

Technical Information

Moonshine® Astral® effect series are based on our thin borosilicate glass flakes which have an average thickness of 350nm and are coated with high refractive index metal oxides, resulting in unique pigments that display strong interference colours combined with high transparency and extraordinary gloss.

Composition				
Ingredients	Composition	By Weight (%)	CAS No.	CI No.
Calcium Sodium Borosilicate	Glass	55 - 66	65997-17-3	-
Tin Oxide	SnO ₂	0 - 1	18282-10-5	77861
Titanium Dioxide	TiO ₂	34 - 44	13463-67-7	77891

Nominal flake thickness (nm):	Uncoated	350	Coated	500 - 1200
Particle Size Diameter (µm):	Mean	D10 30	D90 100	(By Malvern Mastersizer 2000S)
Oil Absorption g/100g:	Range	50	90	ASTM D281-12

pH:	7.0 - 11.0	(10% Aqueous Suspension)
Loss on Drying:	0.5 % max	

Trace Elements - Typical:	Mercury (Hg)	2 ppm max	IEC 62321:2008 ICP-MS
	Arsenic (As)	3 ppm max	
	Lead (Pb)	5 ppm max	
	Cadmium (Cd)	2 ppm max	
	Total Barium (Ba)	25 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