

**Moonshine® Astral® Silver White Super Shimmer**  
**Product Code: GFE-ASWSS**

**Technical Information**

Moonshine® Astral® effect series are based on our thin borosilicate glassflakes 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	64 - 75	65997-17-3	-
Tin Oxide	SnO <sub>2</sub>	0 - 1	18282-10-5	77861
Titanium Dioxide	TiO <sub>2</sub>	25 - 35	13463-67-7	77891

<b>Nominal flake thickness (nm):</b>	Uncoated	350		Coated	500 - 1200
<b>Particle Size Diameter (µm):</b>	Mean	D10	D90	Laser diffraction Measurement	
		10	40		
<b>Oil Absorption g/100g:</b>	Range	55	95	ASTM D281-12	

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

Trace Elements - Typical:	Mercury (Hg)	2 ppm max	IEC 62321:2013 ICP-MS
	Arsenic (As)	3 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)	5 ppm max	
	Selenium (Se)	2 ppm max	
<b>Microorganisms:</b>	100 CFU/g max.		No Pathogens

Glassflake Ltd  
Forster Street Leeds LS10 1PW England  
info@moonshinepigments.com www.moonshinepigments.com

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