moonshine®

Bringing Brilliance with Borosilicate

Moonshine® Red Shimmer

Production Code: GFER

Technical Information

Moonshine® effect series are based on our thin borosilicate glass flakes which have an average thickness of 1.0 microns 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	74 - 85	65997-17-3	-
Tin Oxide	SnO_2	0 - 2	18282-10-5	77861
Titanium Dioxide	TiO_2	5 - 25	13463-67-7	77891

Nominal flake thickness (µm):	Uncoated	1.0	Coated	1.21 - 2.21
Particle Size Diameter (µm):	Mean	D10 20	D90 100	(Laser diffraction Measurement)
Oil Absorption g/100g:	Range	120	150	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 62321:2013 ICP-MS
	Arsenic (As)	5 ppm max	
	Lead (Pb)	10 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	
Microorganisms:	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.

GFER Rev 13.0 – Reviewed March 2025