

Certificate of Analysis (Representative Sample)

Product Name	Red Sparks	Color	Red/Orange/Yellow/Kelly	
Particle size (um)	30-120	Appearance	Dry powder	
Chemical Composition	Percent(%)	CI NO.	CAS NO.	EINECS NO.
Synthetic Fluorophlogopite	53-64		12003-38-2	234-426-5
Silica (SiO ₂)	21-26		7631-86-9	231-545-4
Titanium Dioxide(TiO ₂)	15-20	77891	13463-67-7	2366755
SnO ₂	0-1	77861	18282-10-5	2421590

Solubility in Water	Not soluble		
Chemical Resistance	Stable in Dilute Acid & Alkali		
Loss on drying (105°C , 2 hours)	≤0.5%		
PH-value(10% aqueous suspension)	6-8		
Bulk density (g/cm³)	0.20-0.30		
Heavy metals:	Element	Standard Limits (pps)	Result
	Arsenic	<2	Pass
	Mercury	<1	Pass
	Antimony	<2	Pass
	Lead	<10	Pass
	Cadmium	<1	Pass
	Chrome	<100	Pass
	Barium	<50	Pass
	Nickel	<10	Pass
	Copper	<50	Pass
Zinc	<50	Pass	
Microbial Purity:	Aerobic Bacterial Count (CFU/g)	Max. 100	Pass
	Molds and Yeast Count (CFU/g)	Max. 100	Pass
	Pathogens	Negative	Pass

Chromatic Aberration

Items	Standard Sample	Tested Sample	Chromatic Aberration
L*	90.03	90.48	0.44
a*	1.05	1.09	0.04
b*	1.59	0.53	-1.06
ΔE*			1.14
Sample preparation: As per Testing Process Standard sample: Red Sparks Tested sample: Red Sparks		Test average n=3 Instrument: Colorimeter Lamp-house/points of view: D65/10°	

We confirm TKB Pigments are free from the following Chemicals:

Free from Polycyclic Aromatic Hydrocarbons (PAH);
Free from Polychlorobiphenyls (PCB)