

# Certificate of Analysis (Representative Sample)

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

<b>Solubility in Water</b>	Not soluble		
<b>Chemical Resistance</b>	Stable in Dilute Acid & Alkali		
<b>Loss on drying (105°C , 2 hours)</b>	≤0.5%		
<b>PH-value(10% aqueous suspension)</b>	6-8		
<b>Bulk density (g/cm<sup>3</sup>)</b>	0.20-0.30		
<b>Heavy metals:</b>	<b>Element</b>	<b>Standard Limits (pps)</b>	<b>Result</b>
	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	
<b>Microbial Purity:</b>	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)