



# Certificate of Analysis

( Representative Sample Certificate )

**TKB TRADING, LLC**  
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<b>Product Name</b>	Blue Diamond	<b>Color</b>	Blue	
<b>Particle size (um)</b>	60-400	<b>Appearance</b>	Dry powder	
<b>Chemical Composition</b>	<b>Percent(%)</b>	<b>CI NO.</b>	<b>CAS NO.</b>	<b>EINECS NO.</b>
Calcium Sodium Borosilicate	81-84		65997-17-3	266-046-0
Titanium Dioxide(TiO <sub>2</sub> )	16-18	77891	13463-67-7	236-675-5
SnO <sub>2</sub>	0-1	77861	18282-10-5	242-159-0

<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>	9-11		
<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*	87.77	87.47	-0.30
a*	1.70	1.64	-0.05
b*	8.52	8.12	-0.40
ΔE*			0.50

Sample preparation: As per Testing Process	Test average n=3
Standard sample: n/a	Instrument: Colorimeter
Tested sample: n/a	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)