

# Certificate of Analysis

<b>Product Name</b> CLOISSONNE	RED	<b>Color</b>	Carmine	
<b>Particle size (um)</b>	10-60	<b>Appearance</b>	Dry powder	
<b>Chemical Composition</b>	<b>Percent(%)</b>	<b>CI NO.</b>	<b>CAS NO.</b>	<b>EINECS NO.</b>
Mica	42-50	77019	12001-26-2	3101276
Titanium Dioxide(TiO <sub>2</sub> )	48-53	77891	13463-67-7	2366755
Carmine	2-4	75470	1260-17-9	2157244(1)
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>	3-9		
<b>Bulk density (g/cm<sup>3</sup>)</b>	0.20-0.40		
<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*	64.03	64.12	0.08
a*	16.04	15.97	-0.07
b*	0.10	-0.31	-0.41
ΔE*			0.42

Sample preparation: As per TKB Testing Process  
 Standard sample: Lot no.: 15.01.19  
 Tested sample: Lot no.: 16.03.21

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)