

# Certificate of Analysis (Representative Sample)

|                                     |                   |                   |                        |                   |
|-------------------------------------|-------------------|-------------------|------------------------|-------------------|
| <b>Product Name</b>                 | C77122            | <b>Color</b>      | Blue/Purple/Red/Orange |                   |
| <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          | 47-58             | 77019             | 12003-38-2             | 310-127-6         |
| Silica (SiO <sub>2</sub> )          | 24-29             |                   | 7631-86-9              | 231-545-4         |
| Titanium Dioxide(TiO <sub>2</sub> ) | 18-23             | 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> | 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*    | 90.25           | 90.24         | 0.00                 |
| a*    | -1.29           | -1.05         | 0.23                 |
| b*    | 1.90            | 1.83          | -0.06                |
| ΔE*   |                 |               | 0.23                 |

|  |   |
|--|---|
| Sample preparation: As per Testing Process<br>Standard sample: Lav. Luz<br>Tested sample: Lav. Luz | Test average n=3<br>Instrument: Colorimeter<br>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)