



# SPECIFICATION

( FUJIAN KUNCAI MATERIAL TECHNOLOGY CO. LTD. )

**Product Name:** COSMI 7225 Bright Blue

**Appearance:** An off-white, free flowing powder with a bright blue reflection color.

| Ingredients & Composition | INCI   | Specification                           | CAS No.     | CI No.                   |
|---------------------------|--|---|-------------|--------------------------|
|                           | Mica   | (45 ~ 50)%                              | 12001-26-2  | 77019                    |
|                           | CI 77891   | (50 ~ 55)%                              | 13463-67-7  | 77891                    |
|                           | Tin Oxide  | (< 1)%                                  | 18282-10-5  | 77861                    |
| Heavy Metals Content      | Characteristic   | Specification                           | Unit        | Method                   |
|                           | Arsenic (As)   | <2                                      | ppm         | ICP - OES                |
|                           | Cadmium (Cd)   | <3                                      | ppm         | ICP - OES                |
|                           | Mercury (Hg)   | < 1                                     | ppm         | ICP - OES                |
|                           | Chromium (Cr)  | < 100                                   | ppm         | ICP - OES                |
|                           | Lead (Pb)  | < 10                                    | ppm         | ICP - OES                |
|                           | Antimony (Sb)  | < 1                                     | ppm         | ICP - OES                |
|                           | Copper (Cu)  | < 50                                    | ppm         | ICP - OES                |
|                           | Nickel (Ni)  | < 10                                    | ppm         | ICP - OES                |
|                           | Zinc (Zn)  | < 50                                    | ppm         | ICP - OES                |
|                           | Method: ICP-OES after full digestion with diluted HCl and HF solution. |   |             |                          |
| Microbiological Test      | Total viable aerobic count   | < 100                                   | CFU/g       | Incubator + Microscope   |
|                           | E.Coli   | N.D                                     | pcs in 1 g  | Incubator + Microscope   |
|                           | Pseudomonas aeruginosa   | N.D                                     | pcs in 1 g  | Incubator + Microscope   |
|                           | Staphylococcus aureus  | N.D                                     | pcs in 1 g  | Incubator + Microscope   |
|                           | Salmonella species   | N.D                                     | pcs in 10 g | Incubator + Microscope   |
|                           | Gram negative bacteria   | N.D                                     | pcs in 1 g  | Incubator + Microscope   |
|                           | Candida albicans   | N.D                                     | pcs in 1 g  | Incubator + Microscope   |
| Physical Properties       | Particle Size Distribution (PSD)                                       | 80% within the range (10 ~48) μm        |             | Malvern Mastersizer 3000 |
|                           | D50  | (21.5± 2.0) μm                          |             | Malvern Mastersizer 3000 |
|                           | Color  | as KC STD                               |             | Powder Color, Visual     |
|                           | pH (10 % aqueous suspension)   | 7.0 ~ 11.0                              |             | GB 1717                  |
|                           | Loss on Ignition (LOI,105°Cx2hr)                                       | ≤ 0.5 %                                 |             | GB 5211.3                |
|                           | Oil absorption value   | (70.0 ~ 90.0) g oil / 100 g powder      |             | GB 5211.15               |
|                           | Density  | (2.8 ~ 3.4) g/cm <sup>3</sup> (water=1) |             | GBT 1713                 |