



# SPECIFICATION

( FUJIAN KUNCAI MATERIAL TECHNOLOGY CO. LTD. )

**Product Name:** COSMI 225 Blue Pearl

**Appearance:** A free flowing off white powder with a bright blue reflection color.

| Ingredients & Composition        | INCI   | Specification                           | CAS No.                           | CI No.                   |
|----------------------------------|--|---|-----------------------------------|--------------------------|
|                                  | Mica   | (47 ~ 53)%                              | 12001-26-2                        | 77019                    |
|                                  | CI 77891   | (47 ~ 53)%                              | 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 ~ 60) μm |                          |
| D50                              |  | (22.0 ± 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                 |