



SPECIFICATION

(FUJIAN KUNCAI MATERIAL TECHNOLOGY CO. LTD.)

Product Name: COSMI 217 Copper Pearl

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

| Ingredients & Composition | INCI | Specification | CAS No. | CI No. |
|---------------------------|--|---|-------------|--------------------------|
| | Mica | (53 ~ 57)% | 12001-26-2 | 77019 |
| | CI 77891 | (43 ~ 47)% | 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 | | Malvern Mastersizer 3000 |
| | 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 ³ (water=1) | | GBT 1713 |