



# SPECIFICATION

( FUJIAN KUNCAI MATERIAL TECHNOLOGY CO. LTD. )

**Product Name:** COSMI 970-W 3D Diamond White

**Appearance:** A free flowing off white powder with excellent effect of 3D diamond white.

Ingredients & Composition	INCI	Specification	CAS No.	CI No.
	Calcium Aluminum Borosilicate	(82 ~ 93)%	65997-17-3	-
	CI 77891	(8 ~ 18)%	13463-67-7	77891
	Tin Oxide	(< 2)%	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
	Barium (Ba)	< 50	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 (30 ~ 150) μm		Malvern Mastersizer 3000
	D50	(70.0 ± 2.5) μm		Malvern Mastersizer 3000
	Color	as KC STD		Powder Color, Visual
	pH (10 % aqueous suspension)	9.0 ~ 11.0		GB 1717
	Loss on Ignition (LOI, 105°Cx2hr)	≤ 0.5 %		GB 5211.3
	Oil absorption value	(60.0 ~ 80.0) g oil / 100 g powder		GB 5211.15
	Density	(2.8 ~ 3.4) g/cm <sup>3</sup> (water=1)		GBT 1713