



SPECIFICATION

(FUJIAN KUNCAI MATERIAL TECHNOLOGY CO. LTD.)

Product Name: COSMI SM1060 Penguin White

Appearance: A penguin white powder.

Ingredients & Composition	INCI	Specification	CAS No.	CI No.	
		Synthetic Fluorophlogopite	(100)%	12003-38-2	-
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	(60.0 ~ 90.0) g oil / 100 g powder		GB 5211.15	
	Density	(2.8 ~ 3.4) g/cm ³ (water=1)		GBT 1713	