

USP Light Kaolin Product Specifications (Tested by Batch)

Parameter	Min	Max
Moisture (%)	0.000	0.100
Residue > 325 mesh (%)	0.0000	0.500
pH @ 20% Solids	4.0	7.0
Yeast FDA BAM, 8th Ed. Ch 18 /1 g		Absence
Mold FDA BAM, 8th Ed. Ch 18 CFU /1g		Absence
Aerobic Plate Count, FDA BAM, 8th Ed. Ch 18 CFU/g	0	100

USP Monograph Testing (Tested by Batch)

Identification, USP Monograph Test		Pass
Iron Test, USP Monograph Test		Pass
% Lead , <10ppm, USP Monograph Test		Pass
Ecoli Microbial Limit USP-NF <62> /10g		Absence
Carbonate, USP Monograph Test		Pass
LOI, (550°F – 600°F), UPS Monograph	0	15
Acid Soluble, <10mg		<10 mg

BP Monograph Testing (Tested by Batch)

Loss on Drying, %	0	1.5
Loss on Ignition, %	0	15
Identification Test A		Pass
Identification Test B		Pass
Identification Test C		Pass
Chlorides, ppm	0	330
Soluble Matter	0	10
Arsenic, ppm	0	20
Heavy Metals, ppm	0	250

HEAVY METALS

As a naturally occurring mineral, kaolin products manufactured by Imerys may contain trace quantities of metals. These metals are naturally occurring within our kaolin clay ore deposits. As with all naturally-occurring materials, these values may fluctuate. They are not intentionally added to our products. Data below are typical values reported on a dry weight basis.

Test	Method*	Periodicity	Units	Min	Max
As	XRF	Yearly	ppm		< 4.5
Ba	XRF	Yearly	ppm		< 65
Cd	XRF	Yearly	ppm		< 1**
Co	XRF	Yearly	ppm		< 2
Cr (total)	XRF	Yearly	ppm		2
Hg	XRF	Yearly	ppm		< .05
Ni	XRF	Yearly	ppm		5
Pb	XRF	Yearly	ppm		20
Sb	XRF	Yearly	ppm		< 5
Se	XRF	Yearly	ppm		< 1
Zn	XRF	Yearly	ppm		25

*Note this method gives total concentration and not bioavailable concentration. Minerals have an inherent nature to have ion replacement in their crystalline structure that makes the heavy metal non-bioavailable.

** Detection Limit

Randy Veal

Quality Manager, Imerys, Kaolin

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