

SPECIFICATION

Product Name: Talc Powder IP Grade
Chemical Formula: $Mg_3Si_4O_{10}(OH)_2$
CAS Number: 14807-96-6
Molecular Weight: 379.27 g/mol
Appearance: White or almost white powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification: A IR	-	Complies	The IR spectrum of a potassium bromide dispersion of it exhibits maxima at $3677 \pm 2 \text{ cm}^{-1}$, at $1018 \pm 2 \text{ cm}^{-1}$, and at $669 \pm 2 \text{ cm}^{-1}$. A white, crystalline precipitate is formed. Gives the reaction of silicates
Identification: B	-	Complies	
Identification: C	-	Complies	
Acidity and alkalinity	-	Complies	NMT 0.3 ml of 0.01 M sodium hydroxide is required to change the color of the indicator to pink
Water soluble substances	%	Complies	Max 0.2%
Lead	PPM	<10	Max. 10 PPM
Aluminium	%	<2.0	Max 2.0 %
Iron	%	<0.25	Max 0.25%
Magnesium	%	18.52%	17.0 - 19.5%
Calcium	%	<0.9	Max 0.9%
Loss on ignition (1050-1100 °C)	%	5.53	Max 7.0%
Whiteness	%	79.80%	Max. 80%
Bulk Density	g/ml	0.41	0.40 – 0.45
pH	-	7.26	7 – 8
Mesh	%	99.51%	Passing through 400#

Asbestos	-	Absent	Talc should be free from tremolite and chrysotile form of asbestos. Investigation by X-Ray diffraction for amphiboles and serpentines.
Microbiological Analysis			
Total Aerobic Plate Count	cfu/g	Complies	100 cfu/g
Total yeast & Mould Count	cfu/g	Complies	50 cfu/g

Physical Properties

- Solubility: Practically Insoluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in ether. Insoluble in methanol.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, contamination, and excessive dust exposure.

Applications

- Use: Widely used as a glidant, lubricant, anti-caking agent, anti-adherent, and dusting agent in pharmaceutical, nutraceutical, cosmetic, and industrial formulations.
- Dosage: Depends on Formulation type, Manufacturing process, Compression characteristics, Active ingredient properties, Desired flow and lubrication performance.

Packaging

- Standard Packing: 25 kgs woven pp bag with inner liner, 1 Kgs and 100 Grams or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.