

- Talc
- Kaolin / Ball Clay
- Calcined Kaolin
- Feldspar
- Calcium Carbonate
- Zirconium Sand
- Quartz

PROSOPIS INC.

Pioneer in White Minerals



PROTA 325-USP

GENERAL INFORMATION

Prosopis Talc is a hydrated magnesium silicate with chemical formula of $Mg_3Si_4O_{10}(OH)_2$. Talc grades are purified in a cascade of multiple flotation cells. This process results in a tight definition of the talc composition, making this natural product similar to a synthetic chemical. In combination with a precisely controlled particle size distribution, this ensures exact reproducibility in formulations

PRODUCT NAME	PROTA 325 USP	DATE OF MANUFACTURE	15/02/2025
CHEMICAL NAME	Hydrous Magnesium Silicate	COUNTRY OF ORIGIN	INDIA
BATCH NO	250215	DATE OF EXPIRY	15/02/2030

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CERTIFICATE OF ANALYSIS TALC

Product: Natural Talc powder (Hydrous Magnesium Silicate)

Description: White fine free flowing powder, free from grit, tasteless, odorless, having a smooth soapy feeling

Product Specifications

Physical Analysis	Range
Whiteness %	93-94
Oil absorption g/100g	35-40
pH	8.5-9.5
Bulk density g/cc	0.45-0.55
Hardness Mohs	1
Moisture at 105°C %	0.20
Chemical Analysis	
MgO %	28-30
SiO ₂ %	59-61
CaO %	1-2
Loss on ignition %	5- 8
Acid soluble matter %	1-4
Heavy metal %	NIL
Arsenic %	NIL
Asbestos %	NIL
Particle Size Distribution	As per Sedigraph
D50 / D98	8 Microns / 28.5 Microns
Retention on 325 Mesh sieve	<0.1%
Particulars	Method/Instrument
Whiteness	Diffuse Reflectance Meter
Talc	Titration
Loss on Ignition(1000°C/thr)	Muffle Furnace
Bulk Density	Tapped BD
pH of 10% aqueous solution	pH Paper

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SediGraph III V1.04

Unit 1

Serial Number: 214

Page 1

Sample: PROTA 325

Operator: LAB-qc Submitter:
PROSOPIS

File: C:\5120\APR-24\000-115.SMP

Material/Liquid: Talc / 0.05% Sodium Metaphosphate (w/w)

Measurement Principle: X-Ray monitored gravity sedimentation

Calculation Method: Stokes sedimentation and Beer's law of extinction

Test Number: 1

Analyzed: 4/13/2024 1:10:53PM

Reported: 4/13/2024 3:20:59PM

Liquid Visc:

Analysis Temp: 33.0 °C

Full Scale Mass: 100.0 %

Analysis Type: High Speed(Adj)

Run Time: 0:09 hrs:min

Sample Density: 2.830 g/cm³0.7522 mPa·s Liquid Density: 0.9948 g/cm³

Base/Full Scale: 140 / 81 kCnts/s

Reynolds Number: 0.22

Combined Report

Report by Size Table

Low Diameter (µm)	Cumulative Mass Finer (Percent)	Low Diameter (µm)	Cumulative Mass Finer (Percent)	Low Diameter (µm)	Cumulative Mass Finer (Percent)	Low Diameter (µm)	Cumulative Mass Finer (Percent)
50.00	100.7	15.00	77.5	6.000	38.6	1.000	12.0
45.00	100.7	13.00	71.1	5.000	33.1	0.800	11.2
40.00	100.7	12.00	67.4	4.000	27.4	0.600	8.1
30.00	98.9	10.00	59.0	3.000	21.0	0.500	6.1
25.00	95.3	8.000	49.3	2.000	15.3		
20.00	88.5	7.000	44.0	1.500	13.5		

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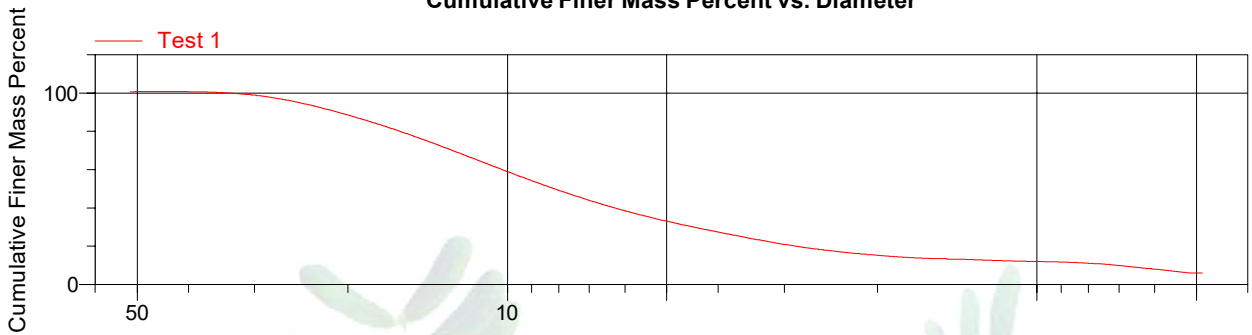
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Cumulative Finer Mass Percent vs. Diameter

Cumulative Finer Mass Percent vs. Diameter



Mass Distribution Arithmetic Statistics

Median

8.139

Selected Percentiles

Selected Sizes

Percent Finer	Diameter (µm)	Diameter (µm)	Percent Finer
98.0	28.35	15.00	77.5
97.0	26.91	12.00	67.4
90.0	20.89	10.00	59.0
50.0	8.139	8.000	49.3
10.0	0.703	2.000	15.3