

Product Data Sheet

Wollastonite — High Aspect Ratio (HAR)

Description

Description	High aspect ratio (HAR) wollastonite is an acicular (needle-like) calcium metasilicate (CaSiO_3) with a high length-to-diameter ratio, used as a functional reinforcement in plastics. Its needle structure improves stiffness, dimensional stability, and heat resistance in nylon and polypropylene compounds.
Applications	Used in plastics reinforcement, nylon and polypropylene compounds, and engineering polymers.
Used In	Plastics reinforcement, nylon, PP compounds

Key Benefits

- High aspect ratio (10:1 – 15:1) acicular structure
- Reinforces plastics – improves stiffness and HDT
- High purity – CaSiO_3 95%
- High brightness (88–92)
- Low iron (Fe_2O_3 max. 0.3%)

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Calcium Silicate (CaSiO_3)	Min. 95%
Iron Oxide (Fe_2O_3)	Max. 0.3%
Aspect Ratio	10:1 – 15:1
Brightness	88 – 92
Loss on Ignition (LOI)	Max. 2.5%
Moisture	Max. 0.5%

Physical Properties

Property	Specification
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Form	Acicular (needle-like) powder
Mesh / Size	D50 50 – 80 µm
Aspect Ratio	10:1 – 15:1
Brightness	88 – 92
Origin	India

* Typical values; mine- and lot-dependent. Test methods available upon request.

Packaging

- 25 kg / 50 kg PP / HDPE woven bags
- 1 MT / 1.25 MT Jumbo Bags (FIBC)
- Loose in bulk for large industrial / export orders
- Custom packaging available on request.

Storage & Handling

- Store in a dry, covered area protected from moisture
- Keep bags sealed to maintain quality and prevent contamination
- Avoid dust generation; provide adequate ventilation
- Handle with appropriate PPE to control dust

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Specifications vary by mine and lot; figures are typical values. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications.