

Product Data Sheet

Wollastonite — Surface Treated (ST-HAR)

Description

Description	Surface-treated high aspect ratio wollastonite is an acicular calcium metasilicate (CaSiO_3) treated with a coupling agent (e.g. silane) to maximise bonding with polymer matrices. The treatment improves dispersion, impact strength, and mechanical performance in engineering plastics.
Applications	Used in nylon 6/66, polypropylene, and TPE compounds (coupling-agent coated for reinforcement).
Used In	Nylon 6/66, PP, TPE compounds (coupling-agent coated)

Key Benefits

- Surface-treated for superior polymer bonding
- High aspect ratio (10:1 – 15:1) acicular structure
- High purity – CaSiO_3 95%
- Improves impact strength and dispersion
- Coupling-agent (e.g. silane) coated to spec

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
Surface Treatment	Coupling agent (e.g. silane) coated
Moisture	Max. 0.5%

Physical Properties

Property	Specification
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Form	Surface-treated acicular powder
Mesh / Size	D50 50 – 80 µm
Aspect Ratio	10:1 – 15:1
Surface Treatment	Coupling agent (e.g. silane), to spec
Origin	India

* Coupling-agent type and loading to buyer requirement. 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.