

FINE GRADES TECHNICAL DATA SHEET (TDS)

WOLLASTONITE

Supplier: InduMinerals OÜ

Product Form: White Powder

CAS Number: 13983-17-0

EC Number: 237-772-5

Chemical Formula: CaSiO₃

Product Code: InduMinerals W80, W150, W200, W325, W400

1. Product Description

Wollastonite is a naturally occurring calcium silicate mineral with a unique combination of properties including high aspect ratio, thermal stability, chemical inertness, and reinforcement. InduMinerals supplies wollastonite in powder and fiber form tailored for industrial use across multiple sectors.

2. Chemical Analysis

Component	Typical Content (%)
SiO ₂	48-53%
CaO	42-45%
MgO	<1.5%
Al ₂ O ₃	<0.3%
Fe ₂ O ₃	<0.3%
TiO ₂	<0.02%
S	<0.02%
P	<0.007%
LOI	1-3%

4. Physical Properties

Property	Typical Value
Appearance	White powder
Particle Shape	Elongated/acicular
Aspect Ratio	3:1-8:1
Mohs Hardness	4.5-5
Specific Gravity	~2.9 g/cm ³
Melting Point	>1500°C
pH (10% slurry)	~9.0
Water Solubility	Insoluble
Oil Absorption (g/100g)	20-30
Whiteness (%)	84-93

5. Available Powder Grades

Grade	Mesh (D97µm)	Application Examples
W80 Powder	80	Construction fillers, boards
W150 Powder	150	General ceramics, structural applications
W200 Powder	200	Ceramics, refractories, construction fillers
W325 Powder	325	Paints, polymers, coatings
W400 Powder	400	Precision ceramics, polymer fillers

6. Applications

- Ceramics and sanitaryware
- Refractory linings and castables
- Paints, primers, and industrial coatings
- Plastics, rubber, and polymer reinforcement
- Friction materials (brake pads, clutches)
- Construction fillers and cementitious systems

7. Packaging & Storage

- Standard packaging: 50 kg bags, 1-ton jumbo bags
- Store in a dry, covered area away from moisture
- Shelf life: Stable indefinitely under dry conditions

8. Safety & Handling

- Not classified as hazardous under CLP Regulation (EC) 1272/2008
- Handle with care to minimize dust inhalation
- Use with appropriate PPE in dusty environments
- Refer to SDS for detailed safety guidelines

Contact:

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Disclaimer

This technical data sheet is intended to provide indicative product information based on current knowledge and material specifications. As wollastonite is a naturally variable mineral, physical and chemical properties may differ slightly between batches. The values listed are not guaranteed and should not be interpreted as contractual specifications or performance guarantees. Clients are encouraged to conduct their own testing to confirm suitability for specific applications. For safety, handling, and regulatory compliance, please refer to the corresponding Safety Data Sheet (SDS).