

Sodium Metasilicate Pentahydrate

Alkaline silicate builder for industrial cleaning, surface-treatment and process formulations.

CAS 10213-79-3	EC 229-912-9	Transport Class 8 · UN 3253 · PG III
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Product Information

Sodium metasilicate pentahydrate is a hydrated alkaline silicate. The supplied granular grade controls sodium oxide, silica, insolubles, iron and particle size. Its water solution is strongly alkaline and can cause serious burns; apply corrosive-material precautions.

Specifications

Parameter	Specification
Appearance	White crystalline granules
Sodium oxide, Na ₂ O	28.00–30.00 %
Silica, SiO ₂	27.00–29.00 %
Water-insoluble matter	≤0.2 %
Iron, Fe	≤0.03 %
Whiteness	≥75
Particle fraction, 16–30 mesh	≥90 %
pH, 1% solution	12.5 ±1.0

Typical Properties

Property	Typical Value
Molecular formula (component)	Na ₂ SiO ₃ ·5H ₂ O
Molecular weight (component)	212.14 g/mol

Applications

Industrial detergent building: Evaluate the silicate as an alkaline builder in industrial detergents.

Surface-treatment cleaning: Assess alkaline degreasing or cleaning formulations for the intended substrate.

Paper and ceramic processing: Evaluate relevant deinking, dispersing or ceramic-processing formulations using the supplied granular grade.

Packaging / Storage

Item	Information
Packaging	25 kg bags with sealed polyethylene liners and woven-plastic or kraft outer bags; confirm authorized packaging for shipment.
Storage	Store tightly closed, dry and ventilated, clear of the floor and protected from sunlight and rain. Keep away from acids and incompatible metals; prevent moisture ingress.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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