



TARGET

For Special Chemicals

SODIUM META SILICATE

TECHNICAL DATASHEET

General Information

• HS CODE	28391100
• CAS NO	10213-79-3
• GRADE	Technical Grade
• FORMULA	Na ₂ SiO ₃ .5H ₂ O
• MOLECULAR WEIGHT	212.13

Physical & chemicals properties

Appearance	granule
Odor	Odorless
Melting Point	72.2° C
Specific Gravity	0.7 ~ 1.0 g/ cm ³
PH	Basic
Solubility	610g/ l in water (@ 30° C)
Alkali Content (as Na ₂ O)	28. 0% ~ 30.0 %
Content as (SiO ₂)	27% ~ 29 %
Degree of Whitness	75.0 % Min
PH Value(1 % at 20)	12.4-12.6
Fe	100 ppm max
Water insolubles	0.2 % max

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Application and uses

In wash industry:

1. It has the strong capability of cleaning, widely used for the manufacture of a variety of detergents in detergent industry, so it is the best substitute for STPP, reducing environmental pollution.
2. Sodium metasilicate provides anti-corrosion protection to metals (zinc, aluminum, etc.) and is used as metal cleaner and metal surface treatment agents.

In the textile industry:

Mainly used as printing and dyeing auxiliaries, fabric pre-treatment agent and as detergents in cooking and dyeing cotton yarn.

In the Paper & Printing Industry:

It can be used as adhesives, old paper deinking agent, paper surface treatment agent and printing detergent.

In the ceramic industry:

Used for sludge thinners. It is especially suitable for additives used in slip-casting forming and ceramic forming.

In the metallurgical industry:

Used as inhibitors and dispersing agent of silicon-containing minerals, smelting furnace dispersants, fast-drying agents, foundry and separating agents.

In construction field:

Used for concrete dispersion agent and hardening accelerator. It is also used as coagulation accelerator.

The recommended dose is 0.3% of the concrete

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Packaging and Storage

25kg/bag, 20fcl \leq 25mt, Store in cool and dry place keep away from sunlight and in tightly closed container away from incompatible materials and foodstuff containers.

- Avoid oxidizing agents, acids, acid chlorides and acid anhydrides.

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