



SODIUM META SILICATE PENTA HYDRATE

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| CAS. NO. | 6834-92-0 |
| IUPAC NAME | Sodium Meta Silicate Penta Hydrate |
| TRADE NAME | Sodium Meta Silicate Penta Hydrate |
| Formula | $\text{Na}_2\text{SiO}_3 \cdot 5\text{H}_2\text{O}$ |
| APPEARANCE | WHITE CRYSTALLINE POWDER |
| Molecular Weight | 212 |

| Checking item | Test standard |
|--|------------------------|
| | (HG/T2568-94) |
| Sodium oxide(Na_2O)% | 28.00-30.00 |
| Silica(SiO_2)% | 27.00-29.00 |
| Water insoluble% | ≤ 0.2 |
| Iron(Fe)% | $\leq 200\text{p.p.m}$ |
| Whiteness | ≥ 80 |
| Bulk Density | 0.80-0.97g/cc |
| PH of 1.0% Solution | 12 - 13 |
| Melting Point | 72.2°C |
| Particular Size | 16-30mesh |

APPLICATION:

- It is used in the ceramic industry as a deflocculant of aqueous clay suspensions.
- Manufacture of detergents and soaps due to its fat- emulsifying capacity, its properties as a corrosion inhibitor and its buffer effect at an alkaline pH.
- In industrial detergents it is used as a strong cleaner.
- In water treatment it is used as a source of silica.
- For degreasing and surface treatment of metals.
- For de-inking and bleaching of recovered paper pulp.

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