Technical Data Sheet

Sodium Metasilicate Pentahydrate

Product form	Powder	Formula	$Na_2SiO_3 \cdot 5H_2O$
Product code	SMP	CAS No.	10213-79-3

Specification

Inspection basis: Q/ZZH 001-2026.

No.	Characteristic	Unit	Specification	Test method
Chemical properties				
1	Sodium oxide (Na_2O)	%	28 - 30	ISO 1692
2	Silicon dioxide (SiO_2)	%	28 - 30	HG/T 2568-2021
3	Dry Matter	%	56 - 60	Na_2O+SiO_2
4	Modulus (SiO_2/Na_2O molar ratio)	—	0.95 - 1.02	ISO 1689
Physical properties	Test sieves: ISO 3310-1:2016; nominal apertures in µm.			
5	Bulk density	g/cm³	0.85 - 1.00	—
6	Passing 600 µm Passing 250 µm	% %	≥90.0 ≥15.0	—
7	Whiteness	—	≥90.0	—

Typical properties

Typical values, for information only, not to be construed as specifications.

Property	Unit	Typical value	Test method
Iron (Fe)	ppm	≤80	—
Water insoluble	%	≤0.06	HG/T 2568-2021
pH (1.0% w/w aqueous solution, 25℃)	—	12 - 13	—
Appearance	—	White powder	—
Melting point	℃	72 - 73	—

Packing, Loading & Shelf life

Item	Details
Packing	25 kg PP woven bag with PE liner; 1,000 kg FIBC / jumbo bag.
Loading without pallets	25 kg - 27mt /20 FCL
Loading on pallets	25 kg - 22mt /20 FCL 1,000 kg - 20mt/20 FCL
Shelf life	12 months from the date of manufacture when stored in the original, unopened packaging under the recommended storage conditions.
Storage	Keep tightly closed in a cool, dry, ventilated warehouse; protect from moisture and keep away from acids.

Disclaimer: The information herein is based on our current knowledge and is given in good faith. It does not constitute a warranty of any kind, express or implied. Users should verify suitability for their specific application. Only the values stated as "Specification" are guaranteed and will be reported in the Certificate of Analysis.

Tel: +86 17685880260 | info@silicatechem.com | www.silicatechem.com