

Sodium Trisilicate Powder

340P1 /340P2

Sodium trisilicate powder is a white free-flowing product with a SiO₂/Na₂O molar ratio of approximately 3,40 and a solid content of 83%.

Product specification

The following specification parameters will be stated in our Certificate of Analysis:

PARAMETER	VALUE	UNIT	METHOD
Na ₂ O	18,0 – 20,3	%	Derived from ISO 1692
SiO ₂	61,7 – 66,1	%	Derived from ISO 2124
Dry matter	80,0 – 86,0	%	Na ₂ O + SiO ₂
Molar ratio	3,30 – 3,50	/	ISO 1689
Weight ratio	3,20 – 3,40	/	ISO 1689

Particle size distribution by Laser diffraction measurement:

PARAMETER	UNIT	340P1-grade	340P2-grade
d10	µm	25 ± 15	40 ± 10
d50	µm	70 ± 20	170 ± 30
d90	µm	170 ± 50	350 ± 50

Typical values

The following typical values are given for informational purposes only and are not to be interpreted as product specifications:

PARAMETER	TYPICAL VALUE	UNIT	METHOD
Bulk density	0,750 – 1,000	g/cm ³	
pH (1%)	10,0 – 12,0	/	
Appearance	White powder	/	

Packaging

Sodium trisilicate powder is available in:

- 25 kg polyethylene bags on a 1000 kg one way pallet
- 1000 kg big bag on a one way pallet

Storage and Shelf life

Sodium trisilicate powders are hygroscopic products therefore keep the packaging closed and protect the packaging from freezing, rain or direct sun. The product should be stored into a dry warehouse. We guarantee a shelf life of 6 months.

Safety and Handling

Sodium trisilicates are alkaline products which are classified as irritating. They should be handled with care in order to prevent injuries. Whenever sodium trisilicate as a substance on its own or in a preparation is handled outside closed systems, suitable personal protective equipment (gloves, goggles, dust masks or respirators) is the preferred and only measure of control. We strongly advise to carefully read our corresponding Material Safety Datasheet before using the product.

The information contained herein is based on our testing and experience and is offered for the user's consideration, investigation and verification. Since operating and use conditions vary and since we do not control such conditions, we must DISCLAIM ANY WARRANTY, EXPRESSED OR IMPLIED, with regard to results to be obtained from the use of this product.