

Sodium Metasilicate Pentahydrate

Sodium Metasilicate Pentahydrate is a white free-flowing granular product with a $\text{SiO}_2/\text{Na}_2\text{O}$ molar ratio of 1,0 and a solid content of 57,5%.

Product specification

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

PARAMETER	VALUE	UNIT	METHOD
Na_2O	28,1 – 29,5	%	Derived from ISO 1692
SiO_2	28,0 – 29,4	%	Derived from ISO 2124
Dry matter	56,5 – 58,5	%	$\text{Na}_2\text{O} + \text{SiO}_2$
Molar ratio	1,01 – 1,05	/	ISO 1689
Weight ratio	0,98 – 1,02	/	ISO 1689
Bulk density	0,850 – 1,050	g/cm^3	

GRANULOMETRY by Retch Sief Analysis

	<i>Fine</i>	<i>Medium</i>
< 0,200 mm	$\leq 2,0$ %	$\leq 2,0$ %
> 1,250 mm	$\leq 2,0$ %	-
> 1,600 mm	-	$\leq 2,0$ %

Typical values

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

PARAMETER	VALUE	UNIT	METHOD
pH (1%)	12,0 – 13,0	/	
Melting point	72	°C	
Insolubles	< 0,02	%	ISO 2122
Fe	< 50	ppm	ICP-OES
Appearance	White granules	/	

Packaging

Sodium metasilicate pentahydrate is available in:

- 25 kg polyethylene bags on a 1000 kg one way pallet
- 1000 kg big bag on a one way pallet
- Bulk (minimum 10 tons)

Shelf life and Storage

Sodium metasilicates are hygroscopic products therefore keep the packaging closed and protect the packaging from frost, rain or direct sun. The product should be stored into a dry warehouse.

Our given shelf life (1 year from production date) is a best before use date and not an expiry one which means that if the product is stored under normal conditions, the product should remain free flowing.

Safety and Handling

Sodium metasilicates are strongly alkaline products and therefore classified as dangerous goods. They should be handled with care in order to prevent injuries. Whenever sodium metasilicate 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.