SILICATES MANUFACTURING COMPANY

APROVADO
Dep. De Qualidade

Sodium Metasilicate Anhydrous

Sodium Metasilicate Anhydrous is a granular sodium silicate with a SiO_2/Na_2O molar ratio of 1,0 and a solid content of 97%.

Product specification

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

PARAMETER	VALUE	UNIT	METHOD
Na_2O	49,6 – 51,0	%	Derived from ISO 1692
SiO_2	46,0 – 47,4	%	Derived from ISO 2124
Dry matter	95,5 – 98,5	%	$Na_2O + SiO_2$
Molar ratio	0,94 – 0,98	/	ISO 1689
Weight ratio	0,91 – 0,95	/	ISO 1689
Bulk density	1,000 – 1,300	g/cm^3	

GRANULOMETRY by Retch Sief Analysis

	FA-grade (0,200 - 0,630 mm)	*FB-grade (0,400 – 1,250 mm)*	*FC-grade (0,200 - 1,250 mm)*
< 0,200 mm	≤2,0 %	-	≤2,0 %
< 0,400 mm	-	≤2,0 %	-
> 0,630 mm	≤2,0 %	-	-
> 1,250 mm	-	≤2,0 %	≤2,0 %

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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%)	> 12,5	/	
Insolubles	< 0,04	%	ISO 2122
Fe	< 100	ppm	ICP-OES
Turbidity	Max 1,0	NTU	1% solution in distilled water
Appearance	White granule	/	

Packaging

Sodium metasilicate anhydrous 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.

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