SILICATES MANUFACTURING COMPANY

Version 8, 18-06-2024

Sodium Metasilicate Anhydrous Powder, FE

Our Sodium Metasilicate Anhydrous Powder FE is a white free-flowing powder with a SiO_2/Na_2O molar ratio of 1,0 and a solid content of 95,5%.

Product specification

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

PARAMETER	VALUE	UNIT	METHOD
Na_2O	48,0 – 51,0	%	Derived from ISO 1692
SiO_2	44,4 – 47,4	%	Derived from ISO 2124
Dry matter	93,5 – 97,5	%	$Na_2O + SiO_2$
Molar ratio	0,91 – 1,01	/	ISO 1689
Weight ratio	0,88 – 0,98	/	ISO 1689
Bulk density	0,90 – 1,20	g/cm^3	

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	/	
Melting point	1089	°C	
Insolubles	< 0,5	%	ISO 2122
Fe	< 100	ppm	ICP
Pb	< 2	ppm	ICP
CO_2	< 5	%	TIC
Appearance	White powder	/	

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GRANULOMETRY by Laser diffraction measurement

	FE-grade
0,000 – 0,100 mm	50 – 95 %
0,100 – 0,200 mm	0 – 35 %
0,200 – 0,250 mm	0 – 10%
0,250 – 0,400 mm	0 – 5 %
0,400 – 1,000 mm	0 – 2 %

Packaging

Sodium metasilicate anhydrous, FE is available in:

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

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.