SILICATES MANUFACTURING COMPANY

20-12-2018, version 1

Sodium Disilicate Powder 200P0 / 200P1 /200P2

Sodium disilicate is a sodium silicate with a SiO2/Na2O molar ratio of approximately 2,00 and a solid content of 82%.

Product specification

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

PARAMETER	VALUE	UNIT	METHODE
Na_2O	26,0 – 29,0	%	Derived from ISO 1692
SiO_2	53,0 – 56,0	%	Derived from ISO 2124
Dry matter	80,0 – 84,0	%	$Na_2O + SiO_2$
Molratio	1,90 – 2,10	/	ISO 1689
Weightratio	1,85 – 2,05	/	ISO 1689

Particle size distribution by Laser diffraction measurement:

PARAMETER	UNIT	200P0-grade	200P1-grade	200P2-grade
d10	µm	25 ± 15	30 ± 20	40 ± 10
d50	µm	70 ± 20	100 ± 25	170 ± 30
d90	µm	170 ± 50	250 ± 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%)	11,0 – 12,0	/	
Insolubles	≤ 0,1	%	ASTM D501
Fe	< 100	ppm	Derived from ISO 6332
Appearance	White powder	/	

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Packaging

Sodium disilicate 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 disilicate 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 disilicates are alkaline products which are classified as irritating. They should be handled with care in order to prevent injuries. Whenever sodium disilicate 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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