

Silicates for the Production of Welding Electrodes

Properties: we produce and supply silicates for producers of welding electrodes and melts which are determined for common welding materials and as well as for special steels or materials. The type of used silicate substantially influences the welding process and its properties too. Generally we can say that - the higher quality of the welding material - the higher demands on silicate.

Summary:

Binding materials for the production of welding electrodes on the basis:

- 1) Potassium water glass – for soft and lowly alloyed steels
- 2) Potassium – lithium water glass - for special and high alloyed steels
- 3) Lithium water glass – low emission electrodes for special and high alloyed electrodes
- 4) Sodium – lithium water glass – for melts which are determined for special and high alloyed steels

According to the client's requirements it is possible to change the values of density and viscosity but also the % content of SiO₂, K₂O, Na₂O a Li₂O.

Packing: Steel or plastic barrels (200l), freely in railway cisterns or truck cisterns or optional packing supplied by customers with the content of 50 litres and more.

In case of packaging supplied by customers the producer is not responsible for quality changes caused by polluted packing.

Applications: As an industrial degreasing agent for a degreasing in the food industry, for degreasing of parts and components in spraying machines, as an ingredient in detergents in industrial laundries. When used in food and agriculture, equipment must be thoroughly rinsed with hot and cold drinking water.

Storage: It is stored and transported at temperatures over 0°C.



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**Safety and working regulations:**

According to the legislation No. 356/2003 Coll. the product is classified as **irritant** with these risky sentences: **R 38** – irritates the skin **R 41** – danger of serious eyesight damage. When working with these products it is necessary to protect the skin with protective gloves, the face with the face shield, and the body with the working dress, rubber apron and boots.

Product liquidation: to precipitate out hydrochloric acid during which there develops silicic acid in solid form and transport it to the appropriate waste site.

Package liquidation: to transport steel or plastic barrels to the salvage of scrap materials.

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pobočka: Brno | Dornych 47 | PSČ 656 16 | tel.: +420 530 530 000 | fax: + 420 530 530 002 | e-mail: info@vodnisko.cz | www.vodnisko.cz
pobočka: Ústí nad Labem | U Tonasa 172/2 | PSČ 403 31 | tel.: +420 475 245 362 | fax: + 420 475 507 164 | e-mail: info@vodnisko.cz | www.vodnisko.cz