



SODA ASH

CAS №497-19-8

GOST 5100-85



## Technical properties:

| Indicator description  | Grade A (Dense) |             | Grade B (Light) |             |              |
|--|-----------------|-------------|-----------------|-------------|--------------|
|  | Top grade       | First grade | Top grade       | First grade | Second grade |
| Appearance   | White grains    |             | White powder    |             |              |
| Mass fraction of sodium bicarbonate (Na <sub>2</sub> CO <sub>3</sub> ), %, minimum                               | 99,4            | 99,0        | 99,4            | 99,0        | 99,0         |
| Mass fraction of sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ) calculated as unignited product, %, minimum | 98,7            | 98,2        | 98,9            | 98,2        | 97,5         |
| Mass fraction of loss during ignition (at 270–300 °C), %, maximum  | 0,7             | 0,8         | 0,5             | 0,8         | 1,5          |
| Mass fraction of chlorides calculated as NaCl, %, maximum  | 0,2<br>(0,15)*  | 0,5         | 0,4             | 0,5         | 0,8          |
| Mass fraction of iron calculated as Fe <sub>2</sub> O <sub>3</sub> , %, maximum                                  | 0,003           | 0,005       | 0,003           | 0,003       | 0,008        |
| Mass fraction of water insoluble substances, %, maximum  | 0,04            | 0,04        | 0,03            | 0,04        | 0,08         |
| Mass fraction of sulfates calculated as Na <sub>2</sub> SO <sub>4</sub> , %, maximum                             | 0,04            | 0,05        | 0,04            | 0,05        | Not rated    |
| Bulk density, g/cm <sup>3</sup> , maximum  | 1,1             | 0,9         | Not rated       |             |              |
| <b>Granulometric composition:</b>  |                 |             |                 |             |              |
| Residue on the sieve with mesh No. 2K according to GOST 6613-86, %, maximum                                      | Not rated       | 5           | Not rated       |             |              |
| Passing a sieve with mesh No. 1.25K according to GOST 6613-86, %, maximum  | 100             | Not rated   | Not rated       |             |              |
| Residue on the sieve with mesh No. 1K according to GOST 6613-86, %, maximum                                      | 3               | Not rated   | Not rated       |             |              |
| Passing a sieve No. 01K according to GOST 6613-86, %, maximum  | 7               | 15          | Not rated       |             |              |
| Magnetic inclusions with a size more than 0.25 mm  | Not available   | Not rated   | Not rated       |             |              |

\* Bashkir soda company JSC has developed production of low chloride soda ash dense with chloride content not more than 0.15%

**APPLICATION.** Soda ash is used in the glass, chemical aluminum industries, iron and non-ferrous metallurgy, soap, fats and oils industry, food, textile, paper, oil and other industries, chemical treatment of water, production of plastic and synthetic resins, processing gold bearing and uranium ores, production of detergents and domestic use.

**CERTIFICATION.** Product safety is certified by the Safety Data Sheet. The product is not subject to mandatory conformity verification in the form of certifications and declaration. Sanitary-Epidemiological Conclusion Certificate was received for soda ash light, confirming the use of the product as a reagent for potable water. Soda ash has a Compliance Certificate and an Application Certificate in the TEKSERT to be used in oil and petrochemical industries. Soda ash is registered in accordance with requirements of the EC REACH regulations, registration number 01-2119485498-19-0025 of 12.11.2010.

**PACKING AND TRANSPORTATION.** The soda ash is packaged in 40 kg paper bags and 25 kg polypropylene bags, 800–900 kg (dense) and 600–650 kg (light) one-time soft special containers depending on the manufacturer. The product is transported in bulk by railway in soda containers and hoppers, and also soda trucks. Soda ash packaged in soft special containers is carried by railway in open cars and covered cars, and also by road transport. Packed in bags, it is carried by any type of transport protecting the product from moisture. Transportation in 20 and 40-foot sea vans, in 25 kg polypropylene bags, 700 kg (light) and 1,000 kg (dense) big bags is possible to the countries outside the CIS.

**GUARANTEED SHELF LIFE.** Guaranteed shelf life of soda ash dense is 3 months, soda ash light – 6 months, packaged in soft special containers – 5 years from the manufacture date. Store the product in covered warehouses, silos, hoppers protecting it from moisture.

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