



## SODA ASH TECHNICAL

GOST 5100-85

### Technical properties:

Items	DENSE			LIGHT		
	Soda Ash Grade					
	Top	I	II	Top	I	II
Appearance	white granules			white powder		
Sodium Carbonate, %, no less than	99.4	99.0	98.5	99.4	99.0	99.0
Sodium Carbonate as non-ignited product, %, no less than	98.7	98.2	97.0	98.9	98.2	97.5
Loss on ignition at 270-300°C, %, no more than	0.7	0.8	1.5	0.5	0.8	1.5
Chloride as NaCl, %, no more than	0.2	0.5	0.8	0.4	0.5	0.8
Iron as Fe <sub>2</sub> O <sub>3</sub> , %, no more than	0.003	0.005	0.008	0.003	0.003	0.008
Water insolubles, %, no more than	0.04	0.04	0.08	0.03	0.04	0.08
Sulfate as Na <sub>2</sub> SO <sub>4</sub> , %, no more than	0.04	0.05	—	0.04	0.05	—
Bulk density, g/cm <sup>3</sup> , no less than	1.1	0.9	0.9	—	—	—
<b>Granulometric composition:</b>						
residue on the sieve with net №2K according to GOST 6613-86, %, no more than	—	5	5	—	—	—
passage through the sieve with net №1,25K according to GOST 6613-86, %	100	—	—	—	—	—
residue on the sieve with net №1K according to GOST 6613-86, %, no more than	3	—	—	—	—	—
passage through the sieve with net №01K according to GOST 6613-86, %, no more than	7	15	25	—	—	—
magnetic inclusions of size more than 0,25 mm	—	—	—	—	—	—

### Applications:

Soda ash is used in a variety of industries. The analysis of soda ash consumption in Russia demonstrates that it is mainly used in glass production, which makes up 58% of the total soda ash consumption in Russia. Moreover, sodium carbonate is widely used in non-ferrous metallurgy, the chemical industry, as well as in pulp and paper industry.

### Packing, shipping and storage:

Soda ash is packed in 25-kg (light soda ash) polypropylene bags, 700-kg (light soda ash) or 1000-kg (dense soda ash) big bags.

Soda ash is transported in bulk by soda tank cars and hoppers; by rail – in open top or covered wagons; by sea — in 20 and 40-foot containers.

Guaranteed storage life for soda ash A grade — 3 months, B grade — 6 months; if packed into special containers — 5 years since the date of manufacture. Storage in covered warehouses, silages, bunkers, protecting the product from moisture.