

SODA ASH DENSE

PROPERTIES

	Top	I	II
Sodium Carbonate, %, min	99.4	99.0	98.5
Sodium Carbonate as non-ignited product, %, min	98.7	98.2	97.0
Loss on ignition at 270-300°C, %, max	0.7	0.8	1.5
Chloride as NaCl, %, max	0.2	0.5	0.8
Iron as Fe ₂ O ₃ , %, max	0.003	0.005	0.008
Water insolubles, %, max	0.04	0.04	0.08
Sulphate as Na ₂ SO ₄ , %, max	0.04	0.05	—
Bulk density, g/cm ³ , min	1.1	0.9	0.9

HAZARD IDENTIFICATION AND SAFETY REQUIREMENTS

Can irritate the nose and throat. Repeated or prolonged exposure can irritate or burn the skin. Eye irritant. May cause moderate to severe irritation. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

TRANSPORTATION AND PACKING

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.

APPLICATION

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.