

SODA ASH

SODIUM CARBONATE, ANHYDROUS Technical Grade

PRODUCT DATA

CAS# 497-19-8

Item	Specification
Formula	Na ₂ CO ₃
Nomenclature	Sodium Carbonate, Anhydrous Soda Ash
CAS Index Name	Carbonic Acid Disodium Salt
Grade	Technical Dense Soda Ash
Molecular Weight	106.0



Description	<ul style="list-style-type: none"> • Sodium carbonate, anhydrous, is a white odorless, granular material, free of visible contamination • Meets Federal Specification O-S-571 G, Type III (Dense) • Meets AWWA Standard B201-08 (railcars and bagged lots) • Meets AWWA Standard B201-03 (bulk trucks from plant) • Meets chemical requirements of ASTM Specification D458-79 • It has been certified by NSF International to ANS/NSF Standard 60-1988 for use in the treatment of drinking water at a maximum dosage of 100mg/L • Kosher Certified by Orthodox Union • Halal Certified by The Islamic Food & Nutrition Council of America • Meets FCC and USP requirements (NF 25/USP 30) • Generally regarded as safe (GRAS) for use in food and food products by the FDA as listed under 21 CFR 184.1742
Containers	<ul style="list-style-type: none"> • 50-Lb Net Weight Paper Bags • Jumbo Hopper Rail Cars • Bulk Trucks • Ocean Vessels • Supersacks



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The following tables are for:
Dense, Technical Grade

SPECIFICATIONS	Property	Specification	Typical
	Sodium Carbonate (%Na ₂ CO ₃)	99.6 minimum	99.80
	Sodium Oxide (%Na ₂ O)	58.1 minimum	58.4
	Sodium Sulfate (Na ₂ SO ₄)	2,000 ppm	500 ppm
	Sodium Chloride (NaCl)	1,000 ppm	100 ppm
	Water Insolubles	500 ppm	350 ppm
	Bulk Density , Lbs/Ft ³	56 minimum	60.00
	Sieving , % (Cumulative):		
	On 20 mesh	0.4 maximum	0.20
	On 30 mesh	8.0 maximum	1.90
On 100 mesh	85.0 minimum	96.20	
Through 200 mesh	2.0 maximum	0.70	

The following are some uses for sodium carbonate:

USES	Industry	Applications
	Agriculture	Water pond sealant
	Ceramics and Glass	Manufacture of ceramics and glass
	Chemical	<ul style="list-style-type: none"> • Manufacture of sodium compounds • Photographic materials • Neutralization of acids, for pH adjustment • Stack gas scrubbing
	Metallurgy	<ul style="list-style-type: none"> • Aluminum production • Metal processing
	Petroleum	<ul style="list-style-type: none"> • Petroleum refining • Drilling muds
	Pulp and Paper	Manufacture of pulp and paper
	Soap and Synthetic Detergents	<ul style="list-style-type: none"> • Manufacture of soaps, cleaners and detergents • Saponification of fatty acids
	Textiles	<ul style="list-style-type: none"> • Manufacture of textiles • Cotton/fabric bleaching
	Water and Waste Treatment	pH and alkalinity
Gas Treatment	Flue gas scrubbing for removal of SO ₃	



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