

OCI CHEMICAL CORPORATION

Five Concourse Parkway
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Product Data

Soda Ash

(Sodium Carbonate, Anhydrous)
High Purity Grade

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	High Purity 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.▪ Meets AWWA Standard B201-92▪ Meets chemical requirements of ASTM Specification D458-79▪ It has been certified by NSF International to ANSI/NSF Standard 60-1988 for use in the treatment of drinking water at a maximum dosage of 100mg/L
Containers	<ul style="list-style-type: none">▪ Hopper Rail Cars

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Specifications: The following tables are for:

High Purity:

Property	Specification	Typical
Sodium Carbonate (%Na ₂ CO ₃)	99.8 minimum	99.9
Sodium Oxide (%Na ₂ O)	58.3 minimum	58.4
Sodium Sulfate (%Na ₂ SO ₄)	0.10 maximum	0.10
Sodium Chloride (%NaCl)	0.01 maximum	0.01
Water Insolubles, %	0.03 maximum	0.03
Bulk Density, Lbs/Ft ³	56.0 maximum	61.5
Sieving, % (Cumulative):		
On 20 mesh (850 um)	0.4 maximum	0.1
On 30 mesh (600 um)	5.0 maximum	0.7
On 100 mesh (150 um)	90.0 minimum	98.2
Through 200 mesh (75 um)	2.0 maximum	0.4

Uses: The following are some uses for sodium carbonate:

Industry	Applications
Agriculture	Water pond sealant
Ceramics and Glass	Manufacture of ceramics and glass
Chemical	<ul style="list-style-type: none">Manufacture of sodium compoundsPhotographic materialsNeutralization of acids, for pH adjustmentStack gas scrubbing
Metallurgy	<ul style="list-style-type: none">Aluminum productionMetal processing
Petroleum	<ul style="list-style-type: none">Petroleum refiningDrilling muds
Pulp and Paper	<ul style="list-style-type: none">Manufacture of pulp and paper
Soap and Synthetic Detergents	<ul style="list-style-type: none">Manufacture of soaps, cleaners, and detergentsSaponification of fatty acids
Textiles	<ul style="list-style-type: none">Manufacture of textilesCotton/fabric bleaching
Water and Waste Treatment	pH and alkalinity
Gas Treatment	Flue gas scrubbing for removal of SO ₃

Last Updated: October 1, 2010

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