INDUSTRIAL CHEMICALS & ALKALI · TECHNICAL DATA SHEET

Soda Ash (Na_2CO_3 99.2% Min) — Dense & Light Grades

Anhydrous Sodium Carbonate · Dense Low-Dust Glass Grade · Light High-Absorptivity Detergent & Chemical Grade

BEG-TDS-SODAASH

HS Code: 2836.20 · **CAS:** 497-19-8
Inspection: SGS / Intertek Port COA
beroilenergy.com/soda-ash-supplier

NA_2CO_3 PURITY	MIN. CONTRACT QTY	INCOTERMS	QUALITY ASSURANCE
99.2% Wt Min	100 MT (FCL / Bulk)	FOB · CPT · CFR ASWP	SGS / Intertek

Product Overview & Grade Architecture

Anhydrous Na_2CO_3

Beroil Energy Group supplies high-purity anhydrous Sodium Carbonate (Soda Ash) certified to ≥ 99.20% Na_2CO_3 and ≥ 58.0% Na_2O with ultra-low iron oxide (≤ 0.0035% Fe_2O_3) and minimal water insolubles (≤ 0.04%). Supplied identically in chemical composition across Dense granular and Light porous powder morphologies to match float-glass furnaces, detergent builders, silicate plants, and hydrometallurgy.

- Dense: 950–1,100 kg/m³
- Light: 500–650 kg/m³
- Ultra-Low Iron (≤ 35 ppm Fe_2O_3)
- 50 kg · 1 MT – 1.25 MT FIBC



01 · Side-by-Side Specification Matrix — Dense Soda Ash vs. Light Soda Ash

PACKAGING	MIN. ORDER	DELIVERY	PAYMENT
25 / 50 kg PP+PE · 1–1.25 MT FIBC	100 MT (~4–5 Containers)	FOB, CPT, CFR ASWP	T/T · L/C at Sight

CHEMICAL / PHYSICAL PARAMETER	UNIT	TEST METHOD	DENSE SODA ASH	LIGHT SODA ASH
Total Alkalinity (as Na_2CO_3)	% wt	ISO 740 / Titration	**99.20 Min**	**99.20 Min**
Sodium Oxide Equivalent (Na_2O)	% wt	Stoichiometric Calc.	**58.0 Min**	**58.0 Min**
Sodium Chloride (NaCl)	% wt	ISO 742 / Volhard	**0.70 Max (0.40–0.70 typ.)**	**0.70 Max (0.40–0.70 typ.)**
Iron Oxide (Fe_2O_3)	% wt	ISO 744 / Spectrophotom.	**0.0035 Max**	**0.0035 Max**
Sodium Sulfate (Na_2SO_4)	% wt	ISO 743 / Gravimetric	0.05 Max	0.05 Max
Water Insoluble Matter	% wt	ISO 746	0.04 Max	0.04 Max
Loss on Ignition (250 °C)	% wt	ISO 745	0.50 Max	0.50 Max
Loose Bulk Density	kg/m³	ISO 903	**950 – 1,100 (0.95–1.10 g/cm³)**	**500 – 650 (0.50–0.65 g/cm³)**
Particle Morphology	—	Sieve / Visual	Coarse low-dust granules (~250–600 µm)	Fine porous white powder (~75–150 µm)
Primary Industrial Role	—	Grade Standard	Glass melting & silicates	Detergents, soaps & wet dosing

Chemical Reference, Industrial Demand & Export Logistics

02 · Physicochemical Reference

Na_2CO_3

Chemical Formula / CAS	**Na_2CO_3 · CAS 497-19-8**
Molecular Weight	105.989 g/mol
Melting Point	851 °C (anhydrous)
True Crystal Density	2.54 g/cm³ @ 20 °C
Aqueous Solubility (20 °C)	215 g/L (strongly alkaline)
pH (1% solution @ 25 °C)	11.4
UN / Transport Class	Non-regulated for sea/road freight

03 · Industrial Sectors & Grade Fit

End-Use Guide

INDUSTRY SECTOR	PREFERRED GRADE & RATIONALE
Flat & Container Glass	**Dense** — low carryover dust, Fe_2O_3 ≤ 35 ppm
Detergents & Soaps	**Light** — high surfactant absorptivity & solubility
Sodium Silicate & Chemicals	**Dense / Light** — uniform Na_2O assay (≥ 58.0%)
Metallurgy & Lithium	**Dense / Light** — cobalt/lithium carbonate precip.
Pulp, Paper & Water Treatment	**Light** — fast pH elevation & softening

04 · Container Payload, Moisture-Barrier Packaging & Handling

PACKAGING OPTION	NET UNIT WEIGHT	20FT CONTAINER LOAD (DENSE / LIGHT)	STORAGE & HANDLING NOTES
Woven PP + PE Inner Liner Bags	**25 kg or 50 kg**	~24–27 MT Dense / ~18–20 MT Light	Moisture-barrier inner PE prevents caking during ocean transit
Standard Jumbo FIBC (4-Loop)	**1,000 kg – 1,250 kg**	~20–24 MT Dense / ~16–18 MT Light	Liner-sealed discharge spout; compatible with silo hoppers
Palletized & Shrink-Wrapped	**1,000 – 1,250 kg**	20 Pallets / 20ft FCL	ISPM-15 heat-treated pallets for automated forklift unloading

Handling & Compatibility Notice: Soda Ash is alkaline (pH 11.4 at 1%) and slowly absorbs atmospheric moisture/CO_2 if unsealed. Store in cool, dry covered warehouses away from strong acids and aluminum surfaces.

05 · Standard B2B Procurement & Export Workflow

Trade Execution

STEP 01 · GRADE SPECIFICATION

Dense vs. Light Bulk Density Selection

Specify Dense (950–1,100 kg/m³) or Light (500–650 kg/m³), iron tolerance, bag format, and destination port.

STEP 02 · OFFER & PORT ROUTING

Container Freight & SGS Baseline

Receive firm FOB, CPT, or CFR ASWP pricing aligned with vessel sailings from Mersin, Bandar Abbas, or Dubai hubs.

STEP 03 · STUFFING & INSPECTION

Moisture-Barrier Packing & Assay

Independent SGS/Intertek pre-shipment sampling verifies Na_2CO_3, NaCl, Fe_2O_3, insolubles, and container net weights.

STEP 04 · CUSTOMS DOC PACK

Full Export Release Documentation

Commercial Invoice, Packing List, Bill of Lading, Certificate of Origin, COA, and MSDS delivered upon T/T or L/C confirmation.

Need Firm Dense or Light Soda Ash Pricing & Lot COA?

Send your required density grade (Dense or Light), bag format (25 kg, 50 kg, or 1–1.25 MT FIBC), tonnage (100 MT+), and destination port.

Request Quote / Lot COA →

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