



1. Product Identification

- **PROPER SHIPPING NAME:** Sodium carbonate
- **Chemical Formula:** Na_2CO_3
- **CAS Number:** 497-19-8
- **UN NUMBER:** UN1005
- **HS Code:** 283620

2. Description

Soda ash, also known as sodium carbonate, is a versatile and essential alkali used in a variety of industries. It appears as a white, odorless powder that is soluble in water and glycerol. Soda ash is primarily used in glass manufacturing, detergents, paper production, and various chemical processes.

Soda Ash is available in two different grades:

- **Dense:**
 - Bulk Density: $\sim 0.85 - 1.1 \text{ t/m}^3$ (High)
 - Particle-Median-Diameter (D50): 300 to 500 microns (Large Particles)
 - Applications: Preferred for **glass** manufacturing due to:
 - Reduced Dust: Granular properties minimize dust generation during handling and transport.
 - Minimized Segregation: Consistent particle size reduces separation during transport and storage.
- **Light:**
 - Bulk Density: $\sim 0.45 - 0.65 \text{ t/m}^3$
 - Particle-Median-Diameter (D50): 30 to 100 microns
 - Applications: This grade is very well suited for **detergent and chemical** applications.





3. Applications

- **Glass Manufacturing:** Reduces the melting temperature of sand and aids in the production of various glass products.
- **Cleaning Products:** Enhances the effectiveness of detergents and soaps.
- **Paper and Pulp Industry:** Adjusts pH levels during the pulping process, leading to higher quality paper products.
- **Batteries:** Used in the production of rechargeable batteries.
- **Metal Refining:** Assists in refining various metals.
- **Food, Cosmetics, and Pharmaceuticals:** Utilized in different processes though often invisible to consumers.
- **Environmental Applications:** Helps in reducing polluting emissions by removing sulfur dioxide and other harmful chemicals from exhaust fumes.

4. Specifications

Chemical Specification

No.	Properties	Unit	Result
1	Na ₂ CO ₃	Wt%	≥99.2
2	Cl ⁻ (as NaCl)	Wt%	0.4≥
3	Total Fe	Wt%	0.004≥
4	Water Insoluble	Wt%	0.1≥

Physical Specification

No.	Properties	Unit	Result
1	Bulk Density (heavy)	g/cm ³	0.85 – 1.1
2	Bulk Density (light)	g/cm ³	0.45 – 0.65
3	20≥ (μm)	Wt%	Max 10
4	Particle Size	20-30 (μm)	Max 25
5		30-100 (μm)	Max 60
6		100-140 (μm)	Max 7
7		> 140 (μm)	Max 3



5. Safety and Handling

Soda ash should be handled with care. Personal protective equipment such as gloves, safety goggles, and protective clothing should be worn. In case of contact with skin or eyes, rinse immediately with plenty of water and seek medical advice. Ensure proper ventilation and avoid inhaling dust or fumes.

6. Storage

Store in a cool, dry place away from moisture and incompatible materials such as acids. Keep containers tightly closed and properly labeled.

7. Packaging

Available in 25, 50, 1000 and 1250 kg bags.



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