

OCI CHEMICAL CORPORATION

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Product Data

Soda Ash

(Sodium Carbonate, Anhydrous)
Technical 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 | 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 B201-92▪ 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 |
| Containers | <ul style="list-style-type: none">▪ 50-and 100-Lb Net weight Paper Bags▪ Jumbo Hopper Rail Cars▪ Bulk Trucks▪ Ocean Vessels▪ Supersacks |

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Specifications: The following tables are for:

Dense:

| 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) | 0.15 maximum | 0.04 |
| Sodium Chloride (%NaCl) | 0.08 maximum | 0.01 |
| Water Insolubles, % | 0.05 maximum | 0.02 |
| Bulk Density, Lbs/Ft ³ | 56.2 – 65.0 | 60.00 |
| Sieving, % (Cumulative): | | |
| On 20 mesh | 0.4 maximum | 0.20 |
| On 30 mesh | 5.0 maximum | 1.90 |
| On 100 mesh | 85.0 minimum | 96.20 |
| Through 200 mesh | 2.0 maximum | 0.70 |

Uses: The following are some uses for sodium carbonate:

| Industry | Applications |
|-------------------------------|---|
| Agriculture | Water pond sealant |
| Ceramics and Glass | In the 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 | <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 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 |

Last Updated: October 1, 2010

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