<table>
<thead>
<tr>
<th><strong>Item</strong></th>
<th><strong>Specification</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Formula</strong></td>
<td>Na₂CO₃</td>
</tr>
<tr>
<td><strong>Nomenclature</strong></td>
<td>Sodium Carbonate, Anhydrous Soda Ash</td>
</tr>
<tr>
<td><strong>CAS Index Name</strong></td>
<td>Carbonic Acid Disodium Salt</td>
</tr>
<tr>
<td><strong>Grade</strong></td>
<td>High Purity Soda Ash</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong></td>
<td>106.0</td>
</tr>
</tbody>
</table>

**Description**

- 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 B201-08 (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**

- Hopper Rail Cars
**Soda Ash**

- **Sodium Carbonate (Na₂CO₃)**: 99.8 minimum, 99.9 typical
- **Sodium Oxide (Na₂O)**: 58.3 minimum, 58.4 typical
- **Sodium Sulfate (Na₂SO₄)**: 1,000 ppm, 200 ppm typical
- **Sodium Chloride (NaCl)**: 100 ppm, 75 ppm typical
- **Water Insolubles**: 250 ppm, 150 ppm typical
- **Bulk Density, Lbs/Ft³**: 56.0 minimum, 60 typical
- **Sieving, % (Cumulative)**:
  - On 20 mesh (850 um): 0.4 maximum, 0.1 typical
  - On 30 mesh (600 um): 5.0 maximum, 0.7 typical
  - On 100 mesh (150 um): 90.0 minimum, 98.2 typical
  - Through 200 mesh (75 um): 2.0 maximum, 0.4 typical

**Industry Applications**

- **Agriculture**: Water pond sealant
- **Ceramics and Glass**: Manufacture of ceramics and glass
- **Chemical**:
  - Manufacture of sodium compounds
  - Photographic materials
  - Neutralization of acids, for pH adjustment
  - Stack gas scrubbing
- **Metallurgy**:
  - Aluminum production
  - Metal processing
- **Petroleum**:
  - Petroleum refining
  - Drilling muds
- **Pulp and Paper**: Manufacture of pulp and paper
- **Soap and Synthetic Detergents**:
  - Manufacture of soaps, cleaners and detergents
  - Saponification of fatty acids
- **Textiles**:
  - Manufacture of textiles
  - Cotton/fabric bleaching
- **Water and Waste Treatment**: pH and alkalinity
- **Gas Treatment**: Flue gas scrubbing for removal of SO₃