

Product Data Sheet

Caustic Soda Flakes (Sodium Hydroxide) - 98% Min

Description

Description	Caustic Soda Flakes (Sodium Hydroxide, NaOH) is a strong inorganic base supplied in flake form for ease of handling, dosing and dissolution. It is one of the most widely used industrial chemicals, serving as a key raw material and pH-adjustment agent across soap/detergent manufacturing, pulp and paper, textile processing, water treatment and chemical synthesis.
Applications	Soap and detergent manufacturing Pulp and paper (kraft pulping) and textile processing (mercerising) Water treatment – pH adjustment and neutralisation Alumina refining (Bayer process) and general chemical synthesis intermediate
Grade	Industrial Flake Grade, Min. 98.0% NaOH
CAS No.	1310-73-2

Key Benefits

1. High NaOH purity (min. 98%) for efficient, predictable dosing across industrial processes
2. Flake form dissolves faster and handles more easily than pellets in many dosing systems
3. Low sodium chloride content suited to processes sensitive to chloride impurity
4. Versatile raw material across chemical, textile, paper and water-treatment industries
5. Cost-effective, widely available strong-base source with established global pricing benchmarks

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
NaOH (Sodium Hydroxide)	Acid-Base Titration	wt%	Min. 98.0
Sodium Carbonate (Na ₂ CO ₃)	Titration Method	wt%	Max. 1.0
Sodium Chloride (NaCl)	Titration / Gravimetric Method	wt%	Max. 0.05
Iron (as Fe ₂ O ₃)	Spectrophotometric Method	wt%	Max. 0.005
Bulk Density	Standard Bulk Density Method	g/cm ³	1.0 – 1.3
Melting Point	Standard Melting Point Method	°C	≈ 318
Appearance	Visual	–	White flakes

Packaging

Packaging 25 kg / 50 kg Moisture-Proof PP Woven Bags (with PE liner)
 1,000 kg Jumbo Bags (FIBC, moisture-proof liner)
 Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, well-ventilated warehouse – product is highly hygroscopic and deliquescent, and will absorb moisture and CO₂ from air if not properly sealed
2. Keep bags/containers tightly sealed at all times until point of use
3. Keep away from aluminium, zinc, tin and other reactive metals – contact generates flammable hydrogen gas
4. Keep away from acids and organic materials – violent, highly exothermic reactions can occur

5. Handle and store per corrosive-material precautions; use appropriate PPE at all times (see MSDS)

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting NaOH content, sodium carbonate and sodium chloride against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.