

Caustic Soda Flakes

High-purity sodium hydroxide flakes for industrial pH adjustment, mineral processing, chemical manufacture and cleaning.

CAS No. 1310-73-2	EC / List No. 215-185-5	Transport Class 8 — Corrosive
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Product Information

Caustic soda flakes are solid sodium hydroxide, a strong inorganic base with formula NaOH and molecular weight 40.00 g/mol. The flakes dissolve readily in water and form highly alkaline solutions. Dissolution generates substantial heat, so solution preparation requires controlled addition, agitation and cooling.

Specifications

Parameter	Specification
Appearance	White solid flakes
NaOH	≥99.0 % wt
Na ₂ CO ₃	≤0.5 % wt
NaCl	≤0.03 % wt
Fe ₂ O ₃	≤0.005 % wt

Supply limits are taken from the matching ZXCHEM Caustic Soda Flakes 2026 TDS. NaOH and impurity values refer to the solid industrial flake grade.

Typical Properties

Property	Typical Value
Molecular formula	NaOH
Molecular weight	40.00 g/mol

Applications

Mineral processing and alumina refining: Strong alkali for pH adjustment and alkaline processing of mineral feeds, including alumina refining. Evaluate solution concentration, reagent addition and carbonate or chloride tolerance against the plant process.

Chemical manufacture and saponification: Alkaline reagent for neutralization, chemical synthesis and soap manufacture through saponification. Select the assay and impurity specification for the intended reaction and control the heat generated during dissolution.

Industrial cleaning and process treatment: Alkalinity source for industrial cleaning and stripping formulations. Evaluate substrate compatibility, especially with aluminium and other alkali-sensitive materials, and establish appropriate protective equipment and rinse controls.

Packaging / Storage

Item	Information
Packing	25 kg bags
Storage	Store tightly sealed in a cool, dry, well-ventilated corrosives area. Protect from moisture and keep separate from acids and incompatible metals.
Handling	Avoid dust and direct contact. Use local extraction, chemical-resistant gloves, protective clothing, splash goggles and face protection. Dissolution releases heat; add flakes gradually to water with cooling and agitation.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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