

TECHNICAL SHEET

CAUSTIC SODA FLAKES

Chemical Name: Molecular formula: NaOH
No.CAS 1310-73-2
Abbreviation: Caustic Soda

General Description:

Caustic soda flakes is obtained from sodium hydroxide - technical grade, by electrolytic process. It is a solid white, hygroscopic, odorless substance.

Caustic soda flakes easily dissolves in water, with heat release. The product is soluble in methyl and ethyl alcohols.

Sodium hydroxide is a strong electrolyte (completely ionized both in crystalline and solution states). Sodium hydroxide is not volatile, but it rises easily in air as aerosols. It is insoluble in ethyl ether.

Technical Quality Conditions:

Characteristics	MU	Values	Test methods
Appearance	-	flakes	visual
Sodium hydroxide (NaOH), min.	%	98	STAS 3068
Sodium carbonate (Na ₂ CO ₃), max.	%	0.7	STAS 3068
Sodium chloride (NaCl), max	%	0.15	STAS 3068
Iron oxides (Fe ₂ O ₃), max.	%	0.004	STAS 3068

Specific Properties:

pH	strongly alkaline
Boiling point	1390°C
Ignition temperature	not ignitable
Relative density (water=1)	2.13 at 25°C
Melting point	318°C

The values of those characteristics are approximated, and are only for general information and are not part of the technical quality conditions.

Main Applications:

- petroleum industry (petroleum products refining)
- chemical industry (dyes, water treatment);
- pulp and paper industry (wood treatment);
- textile industry;
- metallurgy industry (alumina);
- soap and detergents industry.

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Shipping Information:

- palletized polyethylene bags of 25 kg (permissible variation ± 0.2 kg)
- 1 ton (permissible variation ± 5 kg) bags made of polypropylene lined with polyethylene.

Storage:

Keep the product in tightly closed and properly labeled containers. Do not store caustic soda flakes in aluminum container as flammable hydrogen gas can be produced.

Caustic soda flakes should be stored under dry and cold spaces well-ventilated in order to avoid dust forming and spreading.

Never store caustic soda flakes together with other group of materials such as: acids and ammonium salts.

Safety Considerations:

Please refer to the product Material Safety Data Sheet (MSDS) offering customers help to better satisfy their particular handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations.

Warning:

Caustic soda flakes is highly corrosive hazardous product.

Avoid body contact. It is dangerous to eyes and skin. Destroys skin tissues and causes severe chemical burns. Inhalation of dust/mist can cause serious injury to respiratory tract. Ingestion can injure the digestive system.

Attention:

Information contained in this document is provided to the best of our knowledge and experience.