



What is caustic soda?

Caustic soda, or sodium hydroxide, can easily absorb moisture from the air. Caustic soda, known in the industry by names such as caustic soda or sodium hydroxide, is a chemical substance with the formula NaOH and alkaline properties. The density of this white chemical substance is about 2.13 and its melting point is about 1390°C (2534°F).

Caustic soda is the raw material and base for the production of many chemicals and is most widely used in the cellulose and paper industries. This substance absorbs carbon dioxide and moisture from the air at a high speed. On the other hand, it dissolves quickly in glycerin, alcohol, and water to form aqueous solutions.

Uses of Caustic Soda

Caustic soda (sodium hydroxide) is a strong alkaline substance that is used in many industries. Due to its corrosive properties and water solubility, it is used in a wide range of manufacturing and chemical processes:

- Soap and detergent production: Used to hydrolyze fats and oils to produce soap and cleaners.
- Water purification: Used as a substance to adjust the pH of water and remove acidic contaminants from it.
- Paper production: Used in the Kraft process to separate wood fibers from lignin and produce paper pulp.
- Dyeing industries
- Cardboard and paper production

- Leather and textile industries are used in the mercerization process of cotton fabrics and improve their quality and shine.
- Oil, gas and petrochemical industries are used to control the acidity of oil wells and separate contaminants.
- Acid neutralization and battery manufacturing
- Degreasers and other related industries
- Food industry, dairy industry, canning: used in chocolate making, fruit washing, and caramel production as a pH regulator
- Beverage manufacturing, sugar factory, oil factory
- Pharmaceutical, alcohol and cosmetic industries
- Metal industries and glass, zinc, aluminum, galvanizing and plating industries
- Caustic soda is widely used in the oil and gas industry
- Caustic soda is widely used in the military industry.
- Caustic soda is also used for industries that encounter pathogens.
- Caustic soda is also widely used in the polymer and PET industries and is used as a degreaser.

Safety and Handling

While sodium hydroxide is an essential chemical with a variety of uses, it requires careful handling due to its highly corrosive nature:

Protective Equipment: People working with sodium hydroxide should wear protective clothing, gloves, and eye protection to prevent skin and eye contact.

Storage: NaOH should be stored in a cool, dry place, away from acids and moisture to prevent hazardous reactions and degradation.

First Aid: In case of skin or eye contact, rinse immediately with plenty of water and seek medical attention. Ingestion or inhalation of sodium hydroxide solutions can be very harmful and require immediate medical treatment.

Conclusion

Sodium hydroxide, with its potent chemical properties and diverse range of applications, is a cornerstone of industrial production and household products.

Its role in the production of essential goods and services highlights its importance in modern society.

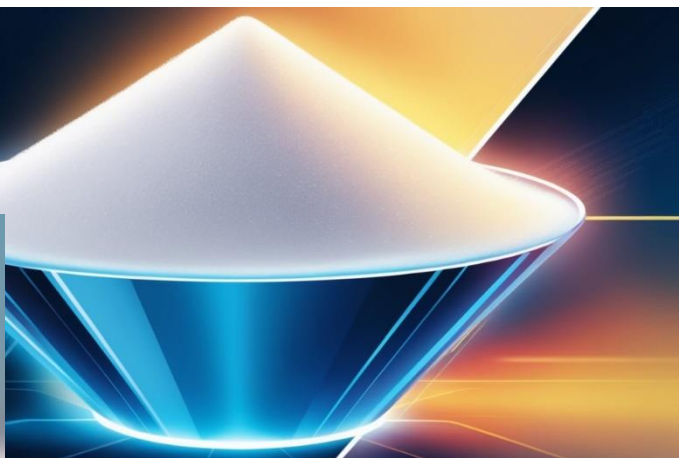
However, care must be taken in its use to ensure safety and environmental

conservation, emphasizing the balance between industrial utility and responsible management.



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Caustic Soda Compositions

Composition	Unit	ISIRI 364 Spec	Tay Business Spec
NaOH	%w/w	Min 98	Min 98
(CO ₃) ²⁻ (as Na ₂ CO ₃)	%w/w	Max 1	Max 0.5
Cl ⁻ (as NaCl)	%w/w	Max 0.06	Max 0.02
(SO ₄) ²⁻ (as Na ₂ SO ₄)	%w/w	Max 0.01	Max 0.005
SiO ₂	%W/W	Max 0.02	Max 0.005
Fe	PPM	Max 30	Max 7
Insoluble in water	%w/w	Max 0.1	Nil
Al (as AL ₂ O ₃)	PPM	Max 20	Max 20
Hg	PPM	Max 0.2	Nil
Heavy metals (as pb)	PPM	Max 20	Max 5
As (as As ₂ O ₃)	PPM	Max 0.2	Nil
Appearance	--	OK	OK