



## Sodium Hydroxide Pellets PRODUCT PROFILE

### CHARACTERISTICS

Sodium hydroxide pellets are odorless, white, solid hemispheres of uniform diameter and thickness. Their geometry reduces dusting and caking so the product stores and handles better. They also are deliquescent.

### PROPERTIES

Chemical formula .....	NaOH
Molecular weight .....	40.00
Absolute density, g/cm <sup>3</sup> .....	2.13
Melting point, °C .....	318.4
Boiling point, °C .....	1390
Solubility in water*, g/100g H <sub>2</sub> O .....	42 at 0°C
<i>*Soluble in alcohol, glycerol.</i>	114 at 25°C
<i>*Insoluble in ether and acetone</i>	347 at 100°C

### SPECIFICATIONS

	REAGENT ACS	NF / FCC
Assay, % NaOH	97.0 minimum	95.0-100.5 (total alkali)
Maximum limits of impurities:		
Sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ), %	1.0	3.0
Chloride (Cl), %	0.005	—
Nitrogen compounds (N), %	0.001	—
Phosphate (PO <sub>4</sub> ), %	0.001	—
Sulfate (SO <sub>4</sub> ), %	0.003	—
Ammonium hydroxide precipitate, %	0.02	—
Heavy metals (as Ag), %	0.002	—
Heavy metals (as Pb), %	—	0.003
Iron (Fe), %	0.001	—
Nickel (Ni), %	0.001	—
Potassium (K), %	0.02	To pass test
Mercury (Hg)	0.1 ppm	0.1 mg/kg
Insoluble substances and organic matter, ppm	—	To pass test
Lead (Pb), ppm	—	2
Arsenic (As), ppm	—	3
Calcium, %	—	0.005
Magnesium, %	—	0.002

### PRODUCT MARKETS AND USES

#### Chemicals

- Neutralizer and alkalinity control in analytical chemistry
- Absorption of NO<sub>x</sub>, SO<sub>3</sub> and CO<sub>2</sub> in gas streams
- Manufacture of high-purity sodium compounds

#### Electronics

- Etchant in semiconductor wet processing

#### Food

- pH and alkalinity adjustment
- Lye peeling of vegetables and fruits

#### Pharmaceuticals

- pH and alkalinity adjustment
- Reactant, catalyst and processing aid
- Softener for epidermis

#### Photography

- Photoengraving and lithography

#### Soaps

- Hydrolyzing fats

#### Textiles

- Bleaching textiles and mercerizing cotton

# Sodium Hydroxide Pellets

## PRODUCT PROFILE

### GRADES, FORMS & SHIPPING CONTAINERS

- **Reagent ACS** 110 lb. fiber drum  
(CODE 115-2255) with poly bag liner
- **NF / FCC** 110 lb. fiber drum  
(CODE 115-2254) with poly bag liner

### SHIPPING LOCATION

- **ACS, NF / FCC:** Midlothian, TX

### SHIPPING REGULATIONS

Hazard Class: 8

Label: *Corrosive*

ID Number: *UN1823*

Proper Shipping Name:

*Sodium Hydroxide, Solid*

Packing Group: *II*

RQ: *1000 lbs. (CASRN Formula Basis)*



### RECOMMENDED SHELF LIFE

Estimated at 3 years from date of manufacture.

Some caking may develop within 1 year.

### CORPORATE HEADQUARTERS

General Chemical  
90 East Halsey Road  
Parsippany, NJ 07054

### IN CANADA

Call Customer Service at  
(800) 631-8050 (English)  
(866) 543-3896 (French)

### PRODUCT SAFETY INFORMATION

Sodium hydroxide causes severe burns to the skin, eyes and mucous membranes. Avoid breathing dust and use with adequate ventilation. May be fatal if swallowed.

While making solutions, add slowly with stirring to avoid violent spattering. Wear proper protective equipment when handling, and wash thoroughly after use.

As with any chemical, sodium hydroxide requires care in handling. Anyone responsible for the procurement, use or disposal of this product should familiarize himself and those handling the product with the appropriate safety and handling precautions. This information is available in the Material Safety Data Sheet, which may be obtained by contacting our Customer Service or Technical Service groups (see box below).

In the event of an emergency with these products, call the 24 hour Emergency Number:  
*US Only: (CHEMTREC) (800) 424-9300*  
*Canada Only: (CANUTEC) (613) 996-6666*



**CUSTOMER & TECHNICAL SERVICE**

**(800) 631-8050**

**WEBSITE**

**[www.GeneralChemical.com](http://www.GeneralChemical.com)**