



Potassium Hydroxide Pellets PRODUCT PROFILE

CHARACTERISTICS

Potassium 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 are deliquescent and typically contain 10% to 15% water.

PROPERTIES

Chemical formula	KOH
Molecular weight	56.11
Absolute density, g/cm ³	2.044
Melting point, °C	360
Boiling point, °C	1320
Solubility in water*, g/100g H ₂ O	96 at 0°C
<i>*Soluble in alcohol, glycerol.</i>	119 at 25°C
<i>*Insoluble in ether and acetone.</i>	178 at 100°C

SPECIFICATIONS

	REAGENT ACS	NF / FCC
Assay, % KOH	85.0 minimum	85.0-100.5 (total alkali)
Maximum limits of impurities:		
Potassium carbonate (K ₂ CO ₃), %	2	3.5
Chloride (Cl), %	0.01	—
Nitrogen compounds (N), %	0.001	—
Phosphate (PO ₄), ppm	5	—
Sulfate (SO ₄), %	0.003	—
Heavy metals (as Ag), %	0.001	—
Heavy metals (as Pb), %	—	0.002
Iron (Fe), %	0.001	—
Nickel (Ni), %	0.001	—
Sodium (Na), %	0.05	—
Mercury (Hg)	—	0.1 mg/kg
Insoluble substances and organic matter, ppm	—	To pass test
Lead (Pb), ppm	—	2
Calcium (Ca), %	0.005	—
Magnesium (Mg), %	0.002	—

PRODUCT MARKETS AND USES

Batteries

- Alkaline, nickel-cadmium & nickel-metal hydride batteries
- Fuel cells

Chemicals

- Neutralizer and alkalinity control in analytical chemistry
- Manufacture of K₂CO₃ & tetrapotassium pyrophosphate
- Absorption of NO_x, SO₃ and CO₂ in gas streams
- Manufacture of high-purity potassium 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

Textiles

- Bleaching textiles & mercerizing cotton

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PRODUCT PROFILE

GRADES, FORMS & SHIPPING CONTAINERS

- **Reagent ACS** 110 lb. fiber drum
(CODE 115-2118) with poly bag liner
- **NF / FCC** 110 lb. fiber drum
(CODE 115-2117) with poly bag liner

SHIPPING LOCATION

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

SHIPPING REGULATIONS

Hazard Class: 8

Label: *Corrosive*

ID Number: *UN1813*

Proper Shipping Name:

Potassium 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

Potassium 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, potassium 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