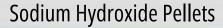


India's only FDA & GMP approved facility to manufacture

# Sodium Hydroxide Pellets & Potassium Hydroxide Pellets

under the brand name of CALIPELLETS

The products manufactured by us under the trade name of CALIRON are conforming to the stringent international Quality Standards. Our CALIRON brand products have an uninterrupted presence since more than Four decades and are well known World Wide for keeping their tradition of supreme quality standards.



Name: Sodium Hydroxide Pellets

Chemical name (IUPAC): Sodium Hydroxide

Synonyms: Caustic Soda CAS number: 1310-73-2 Molecular formula: NaOH

### **Physical/ Chemical Properties**

Property	Value
Physical state	Solid
Form	White deliquescent,
	Crystalline Pellets
Color	White
Odor	Odorless
Melting point	323 °C
Boiling point	1,388 °C
Relative density	2.13 g/ cm³
Molecular weight	39.9971 g/mol
Water solubility	1000 g/L (25 °C)





## Potassium Hydroxide Pellets

Name: Potassium Hydroxide Pellets

Chemical name (IUPAC):Potassium Hydroxide

Synonyms: Caustic Potash CAS number: 1310-58-3 Molecular formula: KOH

### **Physical/ Chemical Properties**

Property	Value
Physical state	Solid
Form	White deliquescent,
	Crystalline Pellets
Color	White
Odor	Odorless
Melting point	360 °C
Boiling point	1,327 °C
Relative density	2.12 g/ cm³ (25 °C)
Molecular weight	56.11 g/mol
Water solubility	121 g/100 mL (25 °C)

### Research & Deveylopment

- In-house R&D
- Process development
- **Product development**
- Adaptation of products to the customer's requirements

### Advantages

- Easy to handle
- **High Purity**
- Free flowing
- Mineral donor
- Reduced dusting and caking

### Qualities

- **Multicompendial Grade**
- Pharmacopeia Standards IP/BP/JP/USP/NF/EP
- Official Standards LR/AR/GR/ACS/FCC
- Tailor made quality as per the customer's requirements

### Production

- Modern & unique production facility
- Well developed process and production control
- system Quality check at each production stage



pH-adjustment and neutralization (Balances or neutralizes the pH of the process)

Electrolyte

(-Used as electrolytes in batteries

-Used in electrolysers for producing hydrogen gas)

**Cleaning Agent** 

(Used for degreasing metals used for electronic applications)

**Etching** 

(-Used for etching silicon wafers -Dissolving agent for photosensitive polymers) Mineral donor

- (An excellent source for sodium and potassium) **Absorbent**
- (Used for absorbing moisture and acidic gases)

### Application of our Pellets

#### **BIOPHARMACEUTICAL AND CHEMICAL INDUSTRY**

- Pharmaceutical and Cosmetic Production (Synthesis. Saponification, Cleaning and pH-adjustment)
- Fine and laboratory chemicals (Synthesis and Analyses)

#### **BATTERIES AND ELECTROLYSERS**

- Batteries (Electrolyte for both disposables and rechargeables)
- Hydrogen gas production (Electrolyte for electrolysers)

#### **FOOD INDUSTRY**

- Dry Milk Products (Whey powder, Coffee creamers and Food thickerners)
- Emulsifiers (Mono and diglycerides and Alginates)
- Instant Coffee (Cleaning of production equipment and pH-adjustment)
- Instant Tea (pH-adjustment)
- Edible oil (Hydrogen gas production for fat hardening)

### **ELECTRONICS INDUSTRY**

 Chips, Photoresists, Semiconductors and PCB (Production and Stripping of photoresists and Etching of metallic silicone)

### **MISCELLANEOUS INDUSTRIES**

- Plastic manufacture (Saponification of dispersing agents, pH-adjustment, Reactivation of catalyst)
- Ethoxylation (Catalyst)
- Gas cleaning (Absorbent of carbon dioxide, hydrogen sulphide, humidity and acidic gases)
- Surface treatment of metals (Degreasing and Cleaning)
- Electroplating bath (Alkaline baths)
- Mirror manufacture (Silver plating bath)
- Photo (Emulsion production and Developer bath)
- Nuclear Power Stations (Storage of nuclear fuel and Regeneration of anion exchangers)
- Solar Panels





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**OFFICES** 

♀India ♀USA ♀Australia ♀China



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