

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.



Sodium Hydroxide Pellets

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/ cm ³
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/ cm ³ (25 °C)
Molecular weight	56.11 g/mol
Water solubility	121 g/100 mL (25 °C)





Research & Development

- 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

Functions of Pellets

- **pH-adjustment and neutralization**
(Balances or neutralizes the pH of the process)
- **Electrolyte**
(-Used as electrolytes in batteries
-Used in electrolyzers 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 electrolyzers)

FOOD INDUSTRY

- Dry Milk Products (Whey powder, Coffee creamers and Food thickeners)
- 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