



INDICATIVE SPECIFICATION

Name:	Caustic Soda Prills (Pearl) & Caustic Soda Solid (Flakes)
Chemical Name:	<i>Sodium Hydroxide</i>
CA.S. No:	<i>1310-73-2</i>
UN No.:	<i>1823</i>
Chemical Formula:	<i>NaOH</i>
Form:	<i>Deliquescent solid, can be in the form of pellets or sticks</i>
Colour:	<i>White</i>
Boiling Point (°C):	<i>1390</i>
Melting Point (°C):	<i>318</i>
Solubility (water):	<i>Soluble with evolution of heat</i>
Solubility (other):	<i>Alcohols, Glycerol</i>
Specific Gravity:	<i>2.13 (Water = 1 at 4 °C)</i>
Bulk Density (g/ml):	<i>1.175</i>

Chemical Composition	Prills	Flakes
Sodium Hydroxide NaOH	<i>99% wt. min *</i>	<i>99% wt. min *</i>
NaCl	<i>0.022% wt. max.</i>	<i>0.022% wt. max.</i>
Na₂CO₃	<i>0.94% wt. max.</i>	<i>0.94% wt. max.</i>
Na₂SO₄	<i>0.038% wt. max.</i>	<i>0.038% wt. max.</i>
Fe	<i>5 ppm wt. max.</i>	<i>50 ppm wt. max.</i>
Ni pick up	<i>3 ppm wt. max.</i>	<i>3 ppm wt. max.</i>

- *on dry basis*

Packing: *25 Kgs Bags, 25 Kgs Drums, 400 Kg Drum, Jumbo Bags
Slip Sheet. Wooden Palletisation where ever possible.*

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Uses

Caustic Soda Prills (Pearl) & Caustic Soda Solid (Flakes) also known as Sodium Hydroxide (NaOH) in the Chlor-Alkali world is used in various applications by numerous industries worldwide.

Agriculture

- * Combating foot and mouth diseases*
- * Decomposing straw*

Beverages and Dairies

- * Cleaning of fats*
- * Water treatment*
- * Cleaning of equipment*
- * Ion exchange resin regeneration*

Chemical Production

- * Sodium aluminate, Sodium Cyanide*
- * Alumina, Silicate, Polycarbonate*
- * Zeolites, Expoxides*
- * Pigments (Titanium oxide)*

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Detergents, Soaps and Cleaners

- * Sodium tripolyphosphate (detergents)*
- * Sodium hypochlorite (household bleach, disinfectant)*
- * Soaps, household cleaning*
- * Oven cleaners, drain pipe cleaners*

Food Processing Edible Oil Refining

- * Production of Pretzels*
- * Refining of edible oils*
- * Treatment of straw to improve nutrition value and digestibility*
- * Lye peeling of fruits and vegetables*

Municipal Water and Sewage Treatment

- * pH control*
- * Odour treatment*
- * Effluent treatment*
- * Descaling of piping networks*

Oil & Gas Production

- * pH control in drilling mud*
- * Removal of bactericide and Calcium*
- * Alkaline flooding of oil fields*
- * Scrubbing off-gases*

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Petroleum and Natural Gas Processing

- * Removal of acidic contaminant from refined products*
- * Extraction of phenols*
- * Scrubbing of off-gas*

Pharmaceutical

- * Sodium phenolate (Antiseptics, Aspirin)*
- * Various production processes*

Textile Finishing Process

- * Scouring to remove contaminants*
- * Bleaching with oxidizing agent*
- * Mercerizing to improve luster and dye absorption*

General Purpose

- * pH Control*
- * Water acid neutralization*
- * Catalysis/Drying agent*
- * Paint stripper, polishes*
- * Degreasing agent for cleaning metal surfaces*
- * De-enamelling*
- * Ion Exchange resin regeneration*
- * Scrubbing of off-gases*