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TECHNICAL DATA SHEET

SODIUM HYDROXIDE (PEARLS)

PRODUCT IDENTIFICATION

Product Name	Sodium Hydroxide Pearls	Common Name	Caustic Soda Pearls / Beads
Chemical Name	Sodium Hydroxide	CAS Number	1310-73-2
Chemical Formula	NaOH	Molecular Weight	40.00 g/mol
UN Number	UN 1823 (solid)	Recommended Grade	Industrial / Technical Grade

PRODUCT DESCRIPTION

Nexolent Solutions Sodium Hydroxide Pearls are high-purity, free-flowing caustic soda beads designed for industrial processing, chemical manufacturing, pH adjustment, neutralization, cleaning formulations, soap and detergent production, water treatment, pulp and paper processing, and other applications requiring a strong inorganic alkali. The pearl form offers convenient handling, rapid dissolution, and accurate batch charging when protected from atmospheric moisture and carbon dioxide.

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE	SPECIFICATION / RANGE	TEST / NOTES
Appearance	White pearls / beads	White, free-flowing	Visual
Sodium Hydroxide (NaOH)	99.0% w/w	98.0% minimum	Acid-base titration
Sodium Carbonate (Na ₂ CO ₃)	0.5% w/w	1.0% maximum	Typical commercial limit
Sodium Chloride (NaCl)	0.02% w/w	0.05% maximum	Grade dependent
Iron (Fe)	10 ppm	20 ppm maximum	Grade dependent
Bulk Density	1.05–1.15 g/mL	Informational	Loose bulk density
True Density at 20°C	2.13 g/cm ³	Informational	Literature value
Melting Point	318°C (604°F)	Informational	Anhydrous NaOH
Solubility in Water	Completely soluble	Pass	Strongly exothermic dissolution
pH, 1% aqueous solution	Approximately 13–14	Informational	At ambient temperature

TYPICAL APPLICATIONS

• Water and wastewater treatment	• Pulp and paper processing
• pH adjustment and neutralization	• Textile and metal processing
• Soap and detergent manufacturing	• Biodiesel and chemical processing

