AQUABOND
Chemistry for Tomorrow

Technical Data Sheet

Alkaline Rinse

Product Overview

Aqueous alkaline rinse formulated at 50 g/L sodium hydroxide in deionized water. Intended for use in per-cleaning and alkaline rinsing of metallic aerospace components prior to NDT or other finishing processes.

Typical Properties

Property	Value
Active ingredient:	Sodium hydroxide (NaOH)
Concentration:	50 g/L (5% w/v)
Appearance:	Clear, colorless liquid
pH (20 °C):	~13–14
Density (20 °C):	~1.05–1.06 g/mL
Conductivity:	Typical range dependent on DI water quality
Odour:	None

Removal of light oils, shop soils, and alkaline cleaner residues
Pre-penetrant cleaning for fluorescent or visible dye penetrant inspection
General alkaline rinsing where permitted by aerospace process specifications

Material Compatibility
Suitable: carbon steel, stainless steel, nickel alloys
Limited exposure: aluminum, titanium, magnesium (short contact times only; avoid elevated temperatures)
Operating Parameters
Concentration: 50 g/L NaOH
Temperature: 20–60 °C
Contact time: 1–10 minutes
Rinsing: Rinse thoroughly with DI or potable water until water break free

Bath Control
Titration: Primary method for verifying NaOH concentration
pH: Quick screening method
Replenishment: Add NaOH beads or concentrate to maintain 50 g/L
Bath life: Replace when soil load, clarity, or titration results fall outside control limits
Specification Alignment (Intent Only)

This product is formulated for use where alkaline cleaners/rinses are permitted under major aerospace specifications (e.g., Boeing, Airbus, Pratt & Whitney, GE, Rolls Royce). Users must qualify the product within their own process and obtain any required OEM approvals.

The data and statements contained in this bulletin are based on testing information and are believed to be accurate and reliable. This bulletin is not a Guarantee or Warranty, express or implied regarding the products use. The product is sold on the condition that the purchaser will do their own tests to determine the suitability of the product in a particular application.
READ THE SDS BEFORE USING THIS PRODUCT