



Alkaline Deruster HD

HEAVY-DUTY ALKALINE DERUSTER AND DECARBONIZER

PRODUCT BENEFITS AND PROPERTIES

Highly concentrated, alkaline, aqueous cleaner with chelants and flash rust inhibitors to remove rust, carbon, scale, and other soils. It has been designed for global regulatory acceptance. Designed for immersion applications that use turbulence or ultrasonic agitation. Low foaming for use in spray wash applications where ventilation is adequate. Readily soluble in tap water, Alkaline Deruster HD is free rinsing. It provides unparalleled cleaning performance while providing a water-break-free or higher level surface cleanliness.

Alkaline Deruster HD will provide users a long tank life. In high-volume, heavily soiled cleaning processes, a precleaning step may be considered. Removal of excess oils and greases will reduce excessive contamination of the bath. Your Brulin representative can recommend a suitable precleaner.

Benefits

- No REACH SVHC
- RoHS Compliant
- Extends Bath Life – Reduces Costs
- In-Process Corrosion Control
- Free Rinsing – Permits Improved Adhesion
- Reduced Cleaning Rework & Rejects
- Separates Oil Effectively for Improved Oil Removal
- Low Foaming at Temperatures Greater Than 120°F (49°C)

TANK MAINTENANCE

Proper maintenance of your wash system will ensure the longest possible detergent bath life, the best parts cleaning performance, and the optimal assurance against part corrosion.

Brulin has developed Maintenance Guidelines for Aqueous Detergent Tanks, a comprehensive flow chart to illustrate the process, and a step-by-step video to guide you through.

CONCENTRATION VERIFICATION

Use Brulin Titration Kit (Prod. No. XTRKIT)

Burette Test Method	Sample Size: 50 mL
Use this when tank strength is 20-50% (v/v), Derusting Conditions	Titrant: 1.0 N HCl or H ₂ SO ₄ Solution
	pH Endpoint: 8.50
	Concentration %: mL Titrant x 2.45
Burette Test Method	Sample Size: 10 mL
Use this when tank strength is 2-20% (v/v), General Cleaning Conditions	Titrant: 1.0 N HCl or H ₂ SO ₄ Solution
	pH Endpoint: 8.50
	Concentration %: mL Titrant x 1.21

MATERIAL COMPATIBILITY

Alkaline Deruster HD is suitable for a variety of alloys. Some selected categories of materials compatible with Alkaline Deruster HD include*:

Ferrous Metals: Carbon Steel • Stainless Steel • Steel

Non-Ferrous Metals & Alloys: Titanium & Titanium Alloys

Plastic & Composites: High Density Polyethylene/HDPE • Polypropylene/PP

Not for use on aluminum-based alloys and IVD coatings, chromium and tin plating, copper-based alloys (brass, bronze, 90/10 and 70/30 copper nickel alloys), and zinc galvanized steel substrates.

SOILS

Alkaline Deruster HD removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with Alkaline Deruster HD include*:

Carbon • Chromated Primers • Coolants • Corrosion, Oxidation (Non-Rust), Corrosion (Rust) • Dirt (Particulate) • Fat • Grease • Mineral Deposits • Oil (General)

** Material compatibility should always be confirmed via testing with specific contaminants under specific cleaning conditions.*

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USE RECOMMENDATIONS

System	- Immersion & Ultrasonic Tanks - Spray Wash (Batch or Continuous)
Dilution	2-20% for general cleaning, 20-50% for derusting/descaling [2], [4], [5]
Cleaning Temperature Range	120-200°F (49-93°C) for general cleaning 160-200°F (71-93°C) for derusting/descaling with 180-200°F (82-93°C) being preferred [4]
Cleaning Duration	1-60 minutes for general cleaning 10-60 minutes for derusting/descaling [4]

- [1] Do not add Alkaline Deruster HD to hot water on initial charge (it is not necessary that make-up be cold).
- [2] If ultrasonic agitation is present, it may be possible to operate with concentrations as low as 0.2% (v/v) on some soils. Parts should be precleaned to remove gross filth such as oils and greases to minimize contamination of Alkaline Deruster HD.
- [3] This product is inherently non-foaming at all temperatures but excessive foaming may occur if the soil is inherently foamy.
- [4] For titanium descaling, do not exceed tank strength of 30% (v/v), operating temperature of 170°F (77°C) or 15 min cleaning duration to avoid etching and excessive stock lost. Titanium should also be cleaned only in a tank dedicated to that alloy as the presence of other metals increases the potential for etching.
- [5] Some aluminum alloys may be safely cleaned at dilutions of less than 0.5% (v/v) with exposures of less than 60 seconds and temperatures below 120°F (49°C). Test on a representative scrap part first.

TYPICAL CHEMICAL CHARACTERISTICS

Physical Form	Liquid
Color	Yellow
Odor/Fragrance	Mild
Viscosity	Water-thin
Weight	10.90 lbs/gal (1.31 g/mL)
pH of Concentrate	>13.0
Flash Point (PMCC)	None to Boiling
Foaming Tendency	Very Low
Shelf Life	24 Months

SHIPPING, STORAGE, DISPOSAL & PREVENTION

Please refer to the Safety Data Sheet for shipping, storage, disposal and prevention guidance.

AVAILABILITY

- 5 Gal (19L)
- 55 Gal (208L)



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