



DARACLEAN

AQUEOUS CLEANERS

DARACLEAN® 238

AQUEOUS CLEANING SOLUTION

- Aerospace Compliant
- SCAQMD Certified
- Foaming Action
- Zero VOCs
- RoHS Compliant
- Multi-Metal Safe
- Heavy Duty Action
- Corrosion Inhibitors
- No Chlorine, Sulfur

• **Safe and Effective**

DARACLEAN® 238 is a foaming, heavy-duty alkaline cleaning solution. Formulated with a blend of surfactants, corrosion inhibitors, and phosphates, DARACLEAN® 238 is an excellent cleaner for use on a broad spectrum of tough soils. Designed to be used with immersion, and ultrasonic applications, it is safe to use with hard metals and is non-aggressive towards aluminum, magnesium, and titanium alloys.

• **Aerospace Qualified**

DARACLEAN® 238 has been tested and certified to meet and exceed Aerospace industry specifications for aqueous and alkaline cleaners. OEM Certifications include Boeing, Douglas, Lockheed, and Pratt & Whitney. Independent laboratory testing has confirmed that DARACLEAN® 238 complies with AMS 1526, ARP 1755, and ASTM F-483, F-484, F-485, F-502, F-519, F-945, F-1110, and F-1111. DARACLEAN® 238 is also SCAQMD Clean Air Certified.

• **Soil Rejecting**

DARACLEAN® 238 has excellent soil-rejecting qualities. After soils are lifted from part surfaces, they are suspended in the cleaner for a short time. Over time, solids will settle out, and oil and grease droplets will coalesce and float on the surface of the solution. Removal of soils can easily be accomplished using filters or skimmers as necessary. This action extends the useful life of DARACLEAN® 238 much further than emulsion-type cleaning solutions.

Typical Applications

Cleaning Method	Concentration	Temperature	Typical Duration
Immersion	5–30%	80–180°F (27–82°C)	2–30 minutes
Ultrasonic	5–30%	80–180°F (27–82°C)	2–30 minutes
Spray	Not recommended		
Steam	1–5%	150–200°F (66–93°C)	1–5 minutes

**Operating parameters should be optimized for each individual application.*

MAGNAFLUX™

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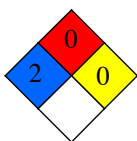
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DARACLEAN® 238

pH Level	13-14	Caustic	Higher pH cleaners are more aggressive and will clean tougher soils but high pH levels can corrode or etch soft metal surfaces.
	11-13	High Alkaline	
	9-11	Alkaline	
	7-9	Neutral	
Foam Level	High		High foam levels will penetrate cracks and holes better, but foam cannot be tolerated in spray applications.
	Moderate		
	Low		
Silicates	Yes	No	Silicates prevent corrosion of metal surfaces, but can form mineral films at high temperatures.
Phosphates	Yes	No	Phosphates provide excellent cleaning action, but are subject to environmental regulations.
Hard Water Tolerance	High		Hard water can suppress cleaning actions—some cleaners are formulated to counteract hard water effects.
	Moderate		
	Low		
Aerospace Compliant	Yes	No	See list for specification compliance
SCAQMD Certified	Yes	No	VOC (10%) 0.0 g/L

Legend: Correct Application

	Aluminum	Anodized Aluminum	Brass & Bronze	Carbon Steel & Cast Iron	Copper	Magnesium	Nickel & Superalloys	Plating (Cd, Cr, Ir, Pt)	Stainless Steel	Titanium	Zinc
Excellent	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
Good	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★
Fair	★★	★★	★★	★★	★★	★★	★★	★★	★★	★★	★★
Poor	★	★	★	★	★	★	★	★	★	★	★
Not Recommended											
Water-Soluble Oils	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★★	★★★	★★★★	★★★★	
Machining Fluids	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★★	★★★	★★★★	★★★★	
Synthetic Coolants	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★★	★★★	★★★★	★★★★	
Medium Weight Oils	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★★	★★★	★★★★	★★★★	
Lube Oils	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★★	★★★	★★★★	★★★★	
Buffing Compounds	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★★	★★★	★★★★	★★★★	
Motor Oils	★★★★	★★★	★★★	★★★★	★★★★	★★★	★★★★	★★★	★★★★	★★★★	
Heavy Petroleum Oils	★★★★	★★	★★	★★★★	★★	★★	★★★★	★★	★★★★	★★★★	
Carbonized Soils	★★★	★★	★★	★★★	★★	★★	★★★	★★	★★★	★★★	
Railroad & Axle Grease	★★	★	★	★★	★	★	★★	★	★★	★★	
Glues											
Spray Adhesives											



NFPA Rating (Concentrate)

DARACLEAN® 238

5 US Gallons (18.9 liters)

P/N 01-6080-40

DARACLEAN® 238

55 US Gallons (208 liters)

P/N 01-6080-45

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