



# DARACLEAN

## AQUEOUS CLEANERS

### DARACLEAN<sup>®</sup> 235 AQUEOUS CLEANING SOLUTION

- Aerospace Compliant
- Low VOCs
- No Silicates
- Low Foam Levels
- RoHS Compliant
- No Phosphates
- Corrosion Inhibitors
- Multi-Metal Safe
- No Chlorine, Sulfur

#### • **Safe and Effective**

DARACLEAN<sup>®</sup> 235 is a low-foaming, all-purpose neutral cleaning solution. Formulated with a blend of surfactants, emulsifiers, and corrosion inhibitors, DARACLEAN<sup>®</sup> 235 is an excellent general cleaner for use on a broad spectrum of soils. Designed to be used with immersion, spray, and ultrasonic applications, it is safe to use with most metals and is non-aggressive towards aluminum, brass, copper, titanium, and zinc alloys.

#### • **Aerospace Qualified**

DARACLEAN<sup>®</sup> 235 has been tested and certified to meet and exceed Aerospace industry specifications for aqueous and alkaline cleaners. OEM Certifications include Boeing and Douglas. Independent laboratory testing has confirmed that DARACLEAN<sup>®</sup> 235 complies with AMS 1526†, ARP 1755, and ASTM F-331, F-483, F-484, F-485, F-502, F-519, F-945, F-1110, and F-1111.

#### • **Soil Rejecting**

DARACLEAN<sup>®</sup> 235 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<sup>®</sup> 235 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	1–12% 2–5% Recommended	130–180°F (54–82°C)	0.25–3 minutes
Steam	1–12%	150–200°F (66–93°C)	1–5 minutes

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

† Except dichromated magnesium

## MAGNAFLUX<sup>™</sup>

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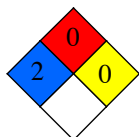
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# DARACLEAN® 235

<b>pH Level</b>	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	
<b>Foam Level</b>	High		High foam levels will penetrate cracks and holes better, but foam cannot be tolerated in spray applications.
	Moderate		
	Low		
<b>Silicates</b>	Yes	No	Silicates prevent corrosion of metal surfaces, but can form mineral films at high temperatures.
<b>Phosphates</b>	Yes	No	Phosphates provide excellent cleaning action, but are subject to environmental regulations.
<b>Hard Water Tolerance</b>	High		Hard water can suppress cleaning actions—some cleaners are formulated to counteract hard water effects.
	Moderate		
	Low		
<b>Aerospace Compliant</b>	Yes	No	See list for specification compliance
<b>SCAQMD Certified</b>	Yes	No	VOC (10%) 4.2 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® 235  
DARACLEAN® 235

5 US Gallons (18.9 liters)  
55 US Gallons (208 liters)  
5 Gallon Can  
55 Gallon Drum

P/N 01-6050-40  
P/N 01-6050-45  
NSN # 6850-01-406-6937  
NSN # 6850-01-406-6938

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