

DARACLEAN[®] 236

AQUEOUS CLEANING SOLUTION



GENERAL DESCRIPTION

DARACLEAN[®] 236 is a low-foaming, all-purpose neutral cleaning solution that is an excellent cleaner for use on a broad spectrum of soils.

COMPOSITION

DARACLEAN[®] 236 is formulated with a blend of surfactants, emulsifiers, and corrosion inhibitors. It is safe to use with most metals and is non-aggressive towards aluminum, brass, and copper alloys.

SOIL REJECTING PROPERTIES

DARACLEAN[®] 236 possesses 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[®] 236 much further than emulsion-type cleaning solutions.

APPLICATION METHOD

DARACLEAN[®] 236 is designed to be used with immersion, spray, and ultrasonic 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 | 2 - 30% | 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.

SPECIFICATION COMPLIANCE

DARACLEAN[®] 236 has been tested and certified to meet and exceed Aerospace industry specifications for aqueous and alkaline cleaners. OEM Certifications include Boeing and Pratt & Whitney. Independent laboratory testing has confirmed that DARACLEAN[®] 236 complies with AMS 1526 (except dichromated

Product Data Sheet


magnesium), ARP 1755, and ASTM F-483, F-484, F-485, F-502, F-945, and F-1110. DARACLEAN® 236 is also certified to California Department of Health Title 22 Aquatic Toxicity requirements.

PACKAGING

20 Liters Part number: F07007 (US Part Number: 01-6040-40)
 205 Liters Part number: F07008 (US Part Number: 01-6040-45)

DARACLEAN® 236 PROPERTIES

| | | | |
|----------------------|----------|---------------|--|
| pH Level | 13-14 | Caustic | Higher pH cleaners are more aggressive and will clean tougher soils but high pH levels can also 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 Specification Compliance. |
| SCAQMD Certified | Yes | No | VOC (10%) 6.0 g/L |

 Correct Application

CONCENTRATION VERIFICATION

HACH Alkalinity Titration Kit*

| | |
|-----------------|-----------------------------|
| Titration | 0.5N Sulfuric Acid |
| Indicator | Bromcresol Green-Methyl Red |
| Concentration % | Titration drops × 2.50 |

* Ordering info: **Alkalinity Test Kit, Model AL-TA**; Product # **2314500**; Mfr. **Hach Company**; Website www.hach.com

DARACLEAN® 236 APPLICATIONS

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

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