Daraclean® 282

Alkaline Aqueous Cleaner

A low-foaming, all-purpose alkaline cleaning solution, Daraclean® 282 is an excellent cleaner for a broad spectrum of soils. This multi-purpose industrial cleaner has excellent soil-rejecting properties and suspends soils until they settle and can be removed by filtering or skimming, for a cleaning bath which lasts much longer than other water-based cleaners.

Daraclean 282 can be used in concentrations up to 25 percent (20 percent for CARB compliance) in immersion, ultrasonic, spray and steam applications.

Moderately alkaline, with low foam levels, Daraclean 282 contains inhibitors to prevent metal corrosion, and has no phosphates and is hard water tolerant.

Daraclean 282 meets all major aerospace specifications for NDT cleaning, is safe to use on most metals and is non-aggressive on aluminum, magnesium and titanium alloys.

**BENEFITS**

**Maximize range of use**
- Effectively cleans a wide variety of soils and contaminates from parts
- Approved for NDT pre-cleaning due to low silicates and low residue
- Conforms to AMS 2644 Class 2, ASME BPVC and all major aerospace requirements
- Works with most application methods and equipment for increased flexibility
- Added corrosion inhibitors protect parts and equipment against rust

**Maximize operator comfort and safety**
- Promotes better inspection quality by providing the operator with a more comfortable work environment
- Reduces discomfort from strong odors
- Exceeds all EHS requirements

**FEATURES**

- Multi-purpose alkaline cleaner
- Low foam level
- Aerospace compliant
- Works on a wide range of materials
- Cleans a broad spectrum of soils
- Multi-metal safe
- Low silicates
- Low residue
APPLICATIONS

Cleaning methods:
- Dipping / immersion cleaning
- Ultrasonic cleaning
- Spray cleaning
- Steam cleaning

Ideal for:
- Aluminum
- Anodized aluminum
- Brass and bronze
- Carbon steel
- Cast iron
- Stainless steel
- Copper
- Magnesium
- Nickel
- Superalloys
- Plated metals
- Titanium

Applications:

<table>
<thead>
<tr>
<th></th>
<th>Aluminum</th>
<th>Anodized Aluminum</th>
<th>Brass &amp; Bronze</th>
<th>Carbon Steel &amp; Cast Iron</th>
<th>Copper</th>
<th>Magnesium</th>
<th>Nickel &amp; Superalloys</th>
<th>Plating (Cd, Cr, Pt)</th>
<th>Stainless Steel</th>
<th>Titanium</th>
<th>Zinc</th>
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<tbody>
<tr>
<td>Water-Soluble Oils</td>
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<td>Machining Fluid</td>
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<td>Synthetic Coolants</td>
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<td>Medium Weight Oils</td>
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<td>Lube Oils</td>
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<td>Buffing Compounds</td>
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<td>Motor Oils</td>
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<td>Heavy Petroleum Oils</td>
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<td>Carbonized Soils</td>
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<td>Railroad &amp; Axel Grease</td>
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Removes:
- Buffing compounds
- Carbonized soils
- Cutting fluids
- Heavy oils and dirt
- Lubricant oils
- Machine oils
- Machining fluid
- Medium weight and lube oil
- Motor oil
- Synthetic coolant
- Water-soluble oils
SPECIFICATION COMPLIANCE

- AMS 1551, 1551A
- ARP 1512
- ASTM F945, F519 TYPE 1 C
- BAC 5763
- Boeing D6-48809
- CSS 253
- GEAE Method 22, 51145
- Honeywell ARP 4992
- Pratt and Whitney PMC 1429
- PWA 36604
- PWA K231
- RR CSS 204 Type A

PROPERTIES

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<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>pH Level</td>
<td>Alkaline</td>
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<tr>
<td>Foam Level</td>
<td>Low</td>
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<tr>
<td>Silicates</td>
<td>Yes</td>
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<tr>
<td>Phosphates</td>
<td>No</td>
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<td>Hard Water Tolerance</td>
<td>Moderate</td>
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<td>Aerospace Compliant</td>
<td>Yes</td>
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<td>SCAQMD Certified</td>
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USE RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Cleaning Method</th>
<th>Concentration</th>
<th>Temp.</th>
<th>Typical Duration</th>
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</thead>
<tbody>
<tr>
<td>Immersion</td>
<td>3–25%</td>
<td>80–180°F / 27–82°C</td>
<td>2–30 mins</td>
</tr>
<tr>
<td>Ultrasonic</td>
<td>3–25%</td>
<td>80–180°F / 27–82°C</td>
<td>2–30 mins</td>
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<tr>
<td>Spray</td>
<td>1–12% Recomm.: 2–5%</td>
<td>130–180°F / 54–82°C</td>
<td>0.25–3 mins</td>
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<tr>
<td>Steam</td>
<td>1–12%</td>
<td>150–200°F / 66–93°C</td>
<td>1–5 mins</td>
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</tbody>
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PACKAGING

- 5 gal / 18.9 L pail 01-6000-40 NSN 6850-01-364-8328
- 55 gal / 208 L drum 01-6000-45 NSN 6850-01-364-8329

INSTRUCTIONS FOR USE

Dilute cleaner with water to the appropriate concentration or use. Cleaning efficiency can be improved with agitation and heat. Increasing cleaning bath temperature will decrease foaming.

Maintenance Recommendations

Maintain cleaning bath by skimming and/or filtering. Check in-use cleaner concentration to maintain cleaning effectiveness. The recommended method for measuring concentration is titration method.

Concentration Verification: HACH Alkalinity Titration Kit*

<table>
<thead>
<tr>
<th>Titrant</th>
<th>0.5N Sulfuric Acid</th>
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<tbody>
<tr>
<td>Indicator</td>
<td>Brom cresol Green-Methyl Red</td>
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<tr>
<td>Concentration %</td>
<td>Titrant drops x 1.7</td>
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</tbody>
</table>

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

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the product Safety Data Sheet, which is available at www.magnaflux.com.