

Daraclean® 235

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Neutral Aqueous Cleaner

Daraclean® 235 is a low-foaming, neutral cleaning solution for general use on a broad spectrum of soils and safe to use on most metals, non-aggressive on aluminum, brass, copper, titanium and zinc alloys. Soil-rejecting properties suspend soils in the solution and can be filtered and skimmed to extend the life of the cleaner much further than emulsion cleaners.



Designed for immersion, spray and ultrasonic and steam applications in concentrations up to 30 percent. Formulated for use on exotic materials and specialty plating, including LOX system components. It is a neutral pH cleaner, complete with defoamer, and has no silicates or phosphates. Use Daraclean 235 on aluminum, anodized aluminum, brass and bronze, carbon steel, stainless steel, cast iron, copper, nickel, superalloys, plated metals, titanium and zinc alloys. Will remove water-soluble oils, machining fluid, synthetic coolants, medium weight and lube oils, buffing compounds and motor oils.

BENEFITS

- Safe for exotic materials
- Neutral cleaning
- Built-in defoamer
- Corrosion inhibitor
- Machine oils
- Machining fluid
- Medium weight and lube oil
- Motor oil
- Synthetic coolant
- Water-soluble oils

SPECIFICATION COMPLIANCE

- Boeing BAC 5763
- Honeywell ARP 4992

APPLICATIONS

Cleaning methods:

- Immersion cleaning
- Ultrasonic cleaning
- Spray cleaning

Removes:

- Buffing compounds
- Cutting fluids
- Grease
- Lubricant oils

Ideal for:

- Aluminum
- Anodized aluminum
- Brass
- Bronze
- Carbon steel
- Cast iron
- Copper
- Nickel
- Stainless steel
- Superalloys
- Plated metals
- Titanium
- Zinc

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 | | | | | | | | | | | | |

USE RECOMMENDATIONS

| Cleaning Method | Concentration | Temp. | Typical Duration |
|-----------------|------------------------|---------------------------|------------------|
| Immersion | 5–30% | 80 to 180°F / 27 to 82°C | 2–30 mins |
| Ultrasonic | 5–30% | 80 to 180°F / 27 to 82°C | 2-30 mins |
| Spray | 1–12% Recomm.: 2–5% | 130 to 180°F / 54 to 82°C | 0.25–3 mins |
| Steam | 1–12% | 150 to 200°F / 66 to 93°C | 1–5 mins |

PROPERTIES

| | |
|----------------------|---------|
| pH Level | Neutral |
| Foam Level | Low |
| Silicates | No |
| Phosphates | No |
| Hard Water Tolerance | Low |
| Aerospace Compliant | Yes |
| SCAQMD Certified | No |

Storage temperature: 50 to 86°F / 10 to 30°C

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*

| | |
|------------------------|-----------------------------|
| Titrant | 0.5N Sulfuric Acid |
| Indicator | Bromcresol Green-Methyl Red |
| Concentration % | Titrant drops x 2.15 |

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

PACKAGING

55 gal / 208 L drum 01-6050-45

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.qnde.ca.

Daraclean Compatibility with Plastics and Elastomers

Aqueous cleaners are known to have adverse effects on some gasket materials while having no effect on others. Adverse effects may include swelling and plasticising (softening) or swelling and disintegration (brittleness). The following lists Daraclean compatibility with a variety of elastomers when tested at 45°C for 92 days.

| DARACLEAN | | 200 | 212 | 235 | 236 | 259 | 282 | 282GF | 283 |
|---------------------------|------------------------|-----|-----|-----|-----|-----|-----|-------|-----|
| Flourinated Elastomer | Viton | E | E | E | E | E | E | E | E |
| Fluorinated Elastomer | PVDF | E | E | E | E | E | E | E | E |
| Flourinated Elastomer | Teflon® | E | E | E | E | E | E | E | E |
| Fluorinated Elastomer | Kalrez® | E | E | E | E | E | E | E | E |
| Composite | Ceramics | E | E | E | E | E | E | E | E |
| Composite | Nickel Graphite | E | E | E | E | E | E | E | E |
| Fiber | Nylon | E | E | E | E | E | E | E | E |
| Chloroprene | Neoprene | G | G | G | G | G | G | G | G |
| Polyvinyl Chloride | PVC | E | E | E | E | E | E | E | E |
| Isobutylene Isoprene | Butyl | G | G | G | G | G | G | G | G |
| Ethylene Propylene | E P Rubber | G | G | G | G | G | G | G | G |
| Polysulfide | Thiokol | G | G | G | G | G | G | G | G |
| Chlorosulfonated PE | Hypolon | G | G | G | G | G | G | G | G |
| Chloro Polyvinyl Chloride | CPVC | G | G | G | G | G | G | G | G |
| Polypropylene | Polypropylene | G | G | G | G | G | G | G | G |
| E P Diene Monomer | EPDM | G | G | G | G | G | G | G | G |
| Polyisoprene | Latex (Natural) Rubber | F | F | F | F | F | F | F | F |
| Syn. Polyisoprene | Latex(Synthetic)Rubber | F | F | F | F | F | F | F | F |
| Polyester/Polyether | (Poly)Urethane | F | F | F | F | F | F | F | F |
| Poly Methyl Methacrylate | Plexiglass | F | F | F | F | F | F | F | F |
| Styrene Butadiene | Buna-S | F | F | F | F | F | F | F | F |
| Styrene Nitrile Copolymer | Buna-N | F | F | F | F | F | F | F | F |

Code:

E = Excellent. No effect.

G = Good. Little or no effect

F = Fair. Slight swelling, softening or brittleness. Switch to an alternate elastomer if possible.

P = Poor. Swelling, softness or brittleness noted. Not recommended for use with Daraclean.

Revised: January 2018

