

Daraclean® 283

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Alkaline Aqueous Cleaner

Daraclean® 283 is a low-foaming, powerful alkaline cleaning solution formulated for use on a broad spectrum of soils, composed of surfactants, emulsifiers, and corrosion inhibitors. It is safe to use on most metals and is non-aggressive towards titanium alloys.

Daraclean 283 has excellent soil rejecting properties that remove soils, then allow solids to settle and lighter grease droplets to float. The solution can be filtered and skimmed to extend its life much further than emulsion-type cleaners.

Daraclean 283 is designed for immersion, spray and ultrasonic applications, in concentrations up to 25 percent. It is tested and certified to meet or exceed aerospace specifications for aqueous alkaline cleaners. High alkaline chemistry is aggressive on soils, and low foam levels can be used in spray applications. Daraclean 283 contains no phosphates and is highly tolerant of hard water, and its inhibitors prevent corrosion on metals.

Daraclean 283 is specifically designed for carbon steel, cast iron, nickel and superalloys, stainless steel and titanium, and it also works well on brass and bronze, copper, plated metals, and can be used on aluminum. It is effective on water soluble oils, machining fluid, synthetic coolants, and medium and heavy weight oils, lube oils, buffing compounds. It will also work on carbonized soils. Daraclean 283 comes in 55-gallon containers.



BENEFITS

- Heavy-duty, high alkaline cleaner
- Low foam level
- Corrosion inhibitor
- Soil rejecting properties

APPLICATIONS

Cleaning methods:

- Dipping / immersion cleaning
- Ultrasonic cleaning
- Spray cleaning

Ideal for:

- Brass and bronze
- Carbon steel
- Cast iron
- Stainless steel
- Copper
- Magnesium
- Nickel
- Super alloys
- Plated metals
- Titanium



Removes:

- Buffing compounds
- Carbonized soils
- Heavy oils and dirt
- Heavy petroleum oils
- Lube oils
- Machining fluid
- Medium weight and lube oils
- Synthetic coolants
- Water-soluble oils

SPECIFICATIONS COMPLIANCE

- AMS 1551, 1551A
- BAC 5749
- Pratt and Whitney PMC 1421

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												

PROPERTIES

pH Level	High alkaline
Foam Level	Low
Silicates	Yes
Phosphates	No
Hard Water Tolerance	High
Aerospace Compliant	Yes
SCAQMD Certified	No

USE RECOMMENDATIONS

Cleaning Method	Concentration	Temperature	Typical Duration
Immersion	3–25%	80 to 180°F / 27 to 82°C	2–30 mins
Ultrasonic	3–25%	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

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 1.66

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

PACKAGING

55 gal / 208 L drum 01-6060-45

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.magnaflux.com.



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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

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