

# Daraclean® 282GF

DISTRIBUÉ PAR / DISTRIBUTED BY:

**QNDÉ**  
QUALITY NDE LTD**QUEBEC**164, St-Jean-Baptiste  
Merici, QC J6R 2C2  
450-691-9090  
info@qn timer.ca**ONTARIO**275, Sheldon Drive, Unit 3  
Cambridge, ON N1T 1A3  
519-894-9099  
nadams@qn timer.ca**ALBERTA**7307, 50 street NW  
Edmonton, AB T6B 2J9  
587-689-6811  
lfields@qn timer.ca

www.qn timer.ca

1-800-361-3630

## Alkaline Aqueous Cleaner

Daraclean® 282GF is a high performance cleaner for a broad spectrum of soils. A low-foaming all-purpose glycol-free alkaline cleaning solution with a unique blend of surfactants and corrosion inhibitors, it meets or exceeds the specifications for most aerospace applications for aqueous and alkaline cleaners.

Daraclean 282GF is designed for immersion, ultrasonic and spray applications, and is safe for use on most metals. It is non-aggressive towards aluminum, magnesium and titanium alloys, and can be used in concentrations up to 25 percent. It is moderately alkaline with low foaming levels for use in spray applications, contains inhibitors to protect metal surfaces from corrosion and it is also tolerant of hard water.

Designed as a high-performance cleaner on aluminum, anodized aluminum, brass, bronze, carbon steel, stainless steel, cast iron, copper, magnesium, nickel, super alloys and plated metals, it also works well on titanium.

Daraclean 282GF is excellent at removing water-soluble oils, machining fluid, synthetic coolants, medium weight and lube oils, motor oils, buffing compounds and heavy petroleum oils. It is also effective on carbonized soils.

Daraclean 282GF is formulated with soil-rejecting properties, which suspend the solids in the cleaner after lifting them from the test material. When the soils have settled out and lighter greases coalesce and float, the cleaner solution can be filtered and skimmed, extended the effective lifespan of the cleaner significantly beyond an emulsion type cleaner.

### BENEFITS

- Alkaline cleaner
- SCAQMD Clean Air Certified
- Low foam level
- Rust inhibitor
- Works on a wide range of materials
- Cleans a broad spectrum of soils

### APPLICATIONS

#### Cleaning methods:

- Dipping / immersion cleaning
- Ultrasonic cleaning

#### Ideal for:

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



### 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

### SPECIFICATIONS COMPLIANCE

- ARP 1755B
- ASTM F945 Method A
- CSS 253
- GEAE Method 22, 51145
- Pratt and Whitney PMC 1429
- PWA 36604-Hot Corrosion, Non-Metallic, Stock Loss, Stress Corrosion
- PWA 407 Rubber
- PWS SPOP 209 Immersion Cleaning
- RR CSS 204 Type A
- SCAQMD

### 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

<b>pH Level</b>	Alkaline
<b>Foam Level</b>	Low
<b>Silicates</b>	Yes
<b>Phosphates</b>	No
<b>Hard Water Tolerance</b>	Moderate
<b>Aerospace Compliant</b>	Yes
<b>SCAQMD Certified</b>	Yes

## 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\*

<b>Titrant</b>	0.5N Sulfuric Acid
<b>Indicator</b>	Bromcresol Green-Methyl Red
<b>Concentration %</b>	Titrant drops x 1.43

\* Ordering info: Alkalinity Test Kit, Model AL-TA; Product # 2314500; Mfr. Hach Company; Website [www.hach.com](http://www.hach.com)

## PACKAGING

55 gal / 208 L drum 01-6010-45  
NSN 6850-01-423-2726

## 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](http://www.magnaflux.com).

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QUEBEC  
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Mercier, QC J6R 2C2  
T: (450) 691-9090

ONTARIO  
275 Sheldon Drive, Unit 3  
Cambridge, ON N1T 1A3  
T: (519) 894-9069

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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