

PRODUCT DATA SHEET

DARACLEAN® 282GF AQUEOUS CLEANING SOLUTION

GENERAL DESCRIPTION

DARACLEAN® 282GF is a low-foaming, all-purpose alkaline cleaning solution that is an excellent cleaner for use on a broad spectrum of soils.

COMPOSITION

DARACLEAN® 282GF 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, magnesium, and titanium alloys.

SOIL REJECTING PROPERTIES

DARACLEAN® 282GF 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® 282GF much further than emulsion-type cleaning solutions.

APPLICATION METHOD

DARACLEAN® 282GF is designed to be used with immersion, spray, and ultrasonic applications. Carb Compliance California Only 1-20%

Cleaning Method	Concentration	Temperature	Typical Duration		
Immersion	3 - 25%	80 - 180°F (27 - 82°C)	2 - 30 Minutes		
Ultrasonic	3 - 25%	80 - 180°F (27 - 82°C)	2 - 30 Minutes		
Spray	1 - 12% 2 - 5% Recommended	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® 282GF has been tested and certified to meet and exceed most Aerospace industry specifications for aqueous and alkaline cleaners. OEM Certifications include Boeing, Douglas, GE, Pratt & Whitney, and Rolls Royce. Independent laboratory testing has confirmed that DARACLEAN® 282GF complies with AMS 1526, ARP 1755, and ASTM F-483, F-484, F-485, F-502, F-519, F-945, F-1110, and F-1111. DARACLEAN® 282GF is SCAQMD Clean Air Certified and is approved to MIL-C-29602.

PACKAGING

5 Gallon Pail (18.9 Liters) Part Number: 01-6010-40 55 Gallon Drum (208 Liters) Part Number: 01-6010-45

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DARACLEAN® 282GF PROPERTIES

	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.				
pH Level	11 - 13	High Alkaline					
	9 - 11	Alkaline					
	7 - 9	Neutral					
	Н	ligh	High foam levels will penetrate cracks and				
Foam Level	Mod	derate	holes better but foam cannot be tolerated in				
	L	.ow	spray applications.				
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.				
	Н	ligh	Hard water can suppress cleaning actions.				
Hard Water tolerance	Moderate		Some cleaners are formulated to counteract				
	L	ow	hard water effects.				
Aerospace Compliant	Yes	No	See Specification Compliance.				
SCAQMD Certified	Yes	No	VOC (10%) 6.0 g/L				

Correct Application

CONCENTRATION VERIFICATIONHACH Alkalinity Titration Kit*

Titrant	0.5N Sulfuric Acid						
Indicator	Bromcresol Green-Methyl Red						
Concentration %	Titrant drops × 1.43						

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



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DARACLEAN® 282GF APPLICATIONS

Excellent	••••	Aluminum	Anodized Aluminum	Brass & Bronze	Carbon Steel & Cast Iron	Copper	Magnesium	Nickel & Superalloys Plating	(1	Stainless Steel		
Good	•••											
Fair	• •								Ir, Pi		Titanium	Zinc
Poor	•								Plating (Cd, Cr, Ir, Pt)			
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	<u>}</u>											
Glues												
Spray Adhesives												

