DARACLEAN® 232 AQUEOUS CLEANING SOLUTION

General Description:

DARACLEAN® 232 is a moderately-foaming, all-purpose alkaline cleaning solution that is excellent for use on a broad spectrum of soils.

Composition:

DARACLEAN® 232 is formulated with a blend of surfactants 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® 232 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® 232 much further than emulsion-type cleaning solutions.

Application Method:

DARACLEAN® 232 is designed to be used with immersion, ultrasonic, and light spray applications.

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® 232 has been tested and certified to meet and exceed most Aerospace industry specifications for aqueous and alkaline cleaners. OEM Certification to Pratt & Whitney requirements. Independent laboratory testing has confirmed that DARACLEAN® 232 complies with ARP 1755 and ASTM F-945.

Packaging:

55 Gallon Drum (208 Liters) Part Number: 01-6070-45



PRODUCT DATA SHEET

DARACLEAN® 232 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	igh	High foam levels will penetrate cracks and holes better but foam cannot be tolerated in				
Foam Level	Mod	lerate					
	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	igh	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%) 2.4 g/L				

Correct Application

CONCENTRATION VERIFICATIONHACH Alkalinity Titration Kit*

Titrant	0.5N Sulfuric Acid						
Indicator	Bromcresol Green-Methyl Red						
Concentration %	Titrant drops × 1.80						

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



PRODUCT DATA SHEET

DARACLEAN® 232 Applications

Excellent	••••	Aluminum	Anodized Aluminum	Brass & Bronze	Carbon Steel & Cast Iron	Copper	Magnesium	Nickel & Superalloys Plating (Cd, Cr, Ir, Pt)	Ir, Pt)	Stainless Steel	Titanium	Zinc
Good	•••											
Fair	• •											
Poor	•								ing Cr,			
Not Recommended									Plati (Cd,			
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												

