

DARACLEAN[®] 212 AQUEOUS CLEANING SOLUTION

GENERAL DESCRIPTION

DARACLEAN[®] 212 is a foaming, all-purpose neutral cleaning solution that is excellent for use on a broad spectrum of soils.

COMPOSITION

DARACLEAN[®] 212 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 and titanium alloys.

SOIL REJECTING PROPERTIES

DARACLEAN[®] 212 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[®] 212 much further than emulsion-type cleaning solutions.

APPLICATION METHOD

Cleaning Method	Concentration	Temperature	Typical Duration		
Immersion	3 - 25% 8 - 12% Recommended	80 - 180°F (27 - 82°C)	2 - 30 Minutes		
Ultrasonic	3 - 25%	80 - 180°F (27 - 82°C)	2 - 30 Minutes		
Spray	Not Recommended	Not Recommended	Not Recommended		
Steam	1 - 12 %	150 - 200°F (66 - 93°C)	1 - 5 Minutes		

DARACLEAN[®] 212 is designed to be used with ultrasonic applications.

Operating parameters should be optimized for each individual application.

SPECIFICATION COMPLIANCE

DARACLEAN[®] 212 has been tested and certified to meet and exceed most Aerospace industry specifications for aqueous and alkaline cleaners. OEM Certifications include Boeing and Douglas. Independent laboratory testing has confirmed that DARACLEAN[®] 212 complies with AMS 1526(except dichromated magnesium), ARP 1755, and ASTM F-331, F-483, F-484, F-485, F-502, F-519, F-945, F-1110, and F-1111.

PACKAGING

5 Gallon Pail (18.9 Liters) Part Number: 01-6030-40 55 Gallon Drum (208 Liters) Part Number: 01-6030-45





	13-14	Caustic	Higher pH cleaners are more aggressive and will clean tougher soils but high pH levels can					
pH Level	11 - 13	High Alkaline						
r	9 - 11	Alkaline	also corrode or etch soft metal surfaces.					
	7 - 9	Neutral						
	Н	igh	High foam levels will penetrate cracks and					
Foam Level	Moderate		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	igh	Hard water can suppress cleaning actions.					
Hard Water tolerance	Мос	lerate	Some cleaners are formulated to counteract					
	L	ow	hard water effects.					
Aerospace Compliant	Yes	No	See Specification Compliance.					
SCAQMD Certified	Yes	No	VOC (10%) 7.2 g/L					

DARACLEAN® 212 PROPERTIES

Correct Application

CONCENTRATION VERIFICATION

HACH Alkalinity Titration Kit*

Titrant	0.5N Sulfuric Acid					
Indicator	Bromcresol Green-Methyl Red					
Concentration %	Titrant drops \times 0.70					

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





DARACLEAN[®] 212 APPLICATIONS

Excellent	••••	Aluminum	Anodized Aluminum	Brass & Bronze	Carbon Steel & Cast Iron	Copper	Magnesium	Nickel & Superalloys Plating		Stainless Steel	Titanium	Zinc
Good	•••								t			
Fair	••								Ľ, P			
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	;	•••	•••	•••	•••	٠		•••	•••	•••	•••	
Glues												
Spray Adhesives												



NFPA Rating (Concentrate)