DARACLEAN® 236: Aqueous Alkaline Cleaner

DARACLEAN 236 is a low foaming mild alkaline liquid blend of organic surfactants, water conditioners, and inhibitors. DARACLEAN 236 is ideal for spray, immersion, and hand wipe applications where a neutral pH product is desired. It is safe to use in virtually all applications where water is allowed.

- No SARA reportables
- No fragrances
- No glycol ethers
- Brightens copper
- Recyclable/filterable
- No silicates
- Neutral pH
- SCAQMD Certified
- Free rinsing
- No phosphates
- Rejects most soils
- Low VOC's

Applications/Starting Dilution

Method	Concentration	Temperature	Typical Duration
Soak	5 - 30%	Ambient - 93°C (200°F)	2 - 30 minutes
Agitation	5 - 30%	Ambient - 93°C (200°F)	2 - 30 minutes
Spray	2 - 30%	Ambient - 93°C (200°F)	0.5 - 3 minutes
Hand Wipe	1 - 100%	Ambient - 46°C (115°F)	<5 minutes
Steam	1 - 12%	66 - 93°C (150 - 200°F)	1 - 5 minutes
Ultrasonic	5 - 30%	Ambient - 93°C (200°F)	2 - 30 minutes
Inhibitor/Rinse Aid	1 - 3%	Ambient - 71°C (160°F)	<5minutes

Concentration, temperature and duration may be adjusted for optimum performance.

Concentration Check Procedure

Test Kit Titration Method

	Cleaner			Inhibitor/Rinse Aid
Sample Size:	10 ml		10 ml	50 ml
Titrant:	0.5N Acid	OR	0.5N Acid	0.5 N Acid
Indicator:	Methyl Orange		Bromophenol Blue	Methyl Orange
Concentration (%):	Drops titrant x 0.6		Drops titrant x 0.5	Drops titrant x 0.1

Conductivity Method

Not applicable.

Refractometer Method (Applicable for concentrations greater than 10%)

Refractometer reading (°Brix) x 6.5 = % DARACLEAN 236

Rev. 1/04

ITW ROCOL North America

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Typical Physical Properties

Alkaline Equivalent	Not applicable (MEQ to pH 8.3) 0.34 - 0.44 (MEQ to pH 4.0)
Appearance	Colorless to pale yellow liquid; slight haze
Cloud Point, 10% in DI Water	34°C (94°F)
Conductivity, Concentrate	16.4 mS
Foam	Low
Odor	Bland
pH, 10% Diluted in DI Water, 25°C (77°F)	6.9
pH, Concentrate, 25°C (77°F)	7.5
Refractive Index, Concentrate	13.5° Brix @ 20°C (68°F)
Specific Gravity	1.025
Surface Tension, 10%	29 dynes/cm
Vapor Pressure	19 mmHG @ 20°C (68°F)
VOC, 10% (EPA Method 24)	6.0 gm/l (<0.1 lbs/U.S. gallon)
VOC, Concentrate (EPA Method 24)	59.9 gm/l (0.5 lbs/U.S. gallon)
Weight	1.03 kg/l (8.54 lbs/U.S. gallon)

Performance Properties

Blender Foam Test, 5% at 22°C (72°F)	180 ml initially, 10 mls after 5 minutes
Graduate Foam Test, 5% a 22°C (72°F)	Flat
Standard Cast Iron Chip Test, 10% :	Excellent
Immersion Corrosion, 10%:Copper	Excellent
2024 Al	Excellent

DARACLEAN 236 has been found to successfully remove a wide range of organic and inorganic soils including:

Meropa 460	HD2 Calcium Grease	Axel Grease	Cimflo 10
AW-32	Sta Put 350	EDM Oil	Boelube
Cyl-Tal 81	Mineral Oil	Buffing Compound	Silicone Oil
Railroad Grease	Polishing Compound	Candle Wax	Beeswax

Disposal

DARACLEAN 236 can be treated via skimming and/or filtering. Final sewerability is determined by the municipal sewer district covering the plant location.

Availability, Storage, and Handling

DARACLEAN 236 is available in 5 gallon pails, 55 gallon drums, one-way or returnable totes, and tank wagons. It is recommended that DARACLEAN 236 be stored in well-ventilated areas at temperatures between 4 and 38°C (40°F and 100°F). The recommended shelf life of this product is one year.

For MSDS
visit our website at
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