



## DARACLEAN<sup>®</sup> 203: Aqueous Low Foam Caustic Cleaner

DARACLEAN 203 is a high pH water based cleaner containing caustic alkali, inhibitors, chelator and a blend of surfactants in a water base. It is specially formulated for high pressure and immersion cleaning applications where tough soils are involved. DARACLEAN 203 contains strong caustic alkalies. **Do not use with aluminum alloys.**

- No SARA reportables
- No fragrances
- No phosphates
- Recyclable
- Free rinsing
- No silicates
- No glycol ethers
- Rejects most soils
- Low foaming

### Applications/Starting Dilution

Method	Concentration	Temperature	Typical Duration
Soak	5 - 30%	20 - 82°C (Ambient – 180°F)	0.5 - 30 Minutes
Agitation	5 - 30%	20 - 82°C (Ambient - 180°F)	0.5 - 30 Minutes
Spray	3 - 30%	20 - 93°C (Ambient - 200°F)	0.5 - 30 Minutes
Steam	1 - 10%	54 - 93°C (130 - 200°F)	0.5 - 30 Minutes
Ultrasonic	5 - 30%	20 - 82°C (Ambient - 180°F)	0.5 - 30 Minutes
Inhibitor/Rinse Aid	Not recommended	--	--

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

### Concentration Check Procedure

#### Test Kit Titration Method

Sample Size: 1 ml  
 Titrant: 0.5 N Acid  
 Indicator: Phenolphthalein  
 Concentration (%): Drops titrant x 1.0

#### Conductivity Method

Conductivity reading (mS) ÷ 4.4 = % DARACLEAN 203

#### Refractometer Method

Reading (°Brix) x 3.0 = % DARACLEAN 203

Typical Readings  
 5% = 1.5°Brix  
 10% = 3.3°Brix  
 25% = 8.3°Brix



## Typical Physical Properties

Alkaline Equivalent	1.9 - 2.1 ( MEQ to pH 8.3) 2.2 - 2.5 (MEQ to pH 4.0)
Appearance	Clear, colorless to pale yellow liquid
Cloud Point, 10% in DI Water	< 27°C (<80 °F)
Conductivity, Concentrate	244 mS
Foam	Very low
Odor	Mild
pH, 10% Diluted in DI Water, 25°C (77°F)	13.0
pH, Concentrate, 25°C (77°F)	14.2
Refractive Index, Concentrate at 20°C (68°F)	30 - 35°Brix
Specific Gravity	1.12
Surface Tension, 10%	34 dynes/cm
Vapor Pressure	16 mmHG @ 20°C (68°F)
VOC, 10% (EPA Method 24)	0.0 gm/l (0.0 lbs/U.S. gallon)
VOC, Concentrate (EPA Method 24)	0.0 gm/l (0.0 lbs/U.S. gallon)
Weight	1.12 kg/l (9.35 lbs/U.S. gallon)

## Performance Properties

DARACLEAN 203 has been found effective at removing a variety of soils including heavy oils, greases, carbonized oil and some light rust.

Immersion Corrosion, 100%, 10%, 1%	Excellent
Copper Corrosion, 100%, 10%, 1%	Excellent
Cast Iron Chip Corrosion, 100%, 10%, 1%	Excellent

## Disposal

DARACLEAN 203 can be pretreated via skimming and/or filtering. Final sewerability is determined by the municipal sewer district covering the plant location.

## Availability, Storage, and Handling

DARACLEAN 203 is available in 5 gallon pails, 55 gallon drums, 330 gallon totes, and tank truck quantities. It is recommended that DARACLEAN 203 be stored in well-ventilated areas at temperatures between 4 - 38°C (40°F - 100°F).

The recommended shelf life of this product is one year.

**Do not freeze or heat concentrate above 60° C (140° F); contents may separate.**

For MSDS  
visit our website at  
[www.rocolnorthamerica.com](http://www.rocolnorthamerica.com)

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