



ProClean PE-170

Powdered Electro Cleaner

ProClean PE-170 is a powdered electro cleaner formulated specifically for steel substrates. It provides high conductivity and can be used for barrel or rack applications.

Features & Benefits

- High Conductivity Anodic Cleaner for Steel
- Superior Cleaning and Rinsability
- Strong Oil Displacement Properties
- Good Cathodic Cleaner on Sensitive Metals
- Low Foaming
- Tolerates Mild Chloride Contamination without Etching

Operating Standards

	Optimum	Range
Concentration	12 opg	8 - 16 opg
Temperature	160° F	140-180° F
Time	As Needed	1-8 minutes
Voltage - Barrel	-	5-10
Voltage - Rack	-	3-5
Current Density - Barrel	-	10-20 ASF
Current Density - Rack	-	15-75 ASF

Product Profile

Physical Appearance	Light amber powder
Solubility	to 24 opg
Foaming	Low
Operating pH	Above 13
Caustic	Yes
Silicate	No
Phosphate	No
Biodegradable	Yes
Effect of water hardness	None
Effect on metals	
Steel	No attack Tarnish
Copper	Light Etch
Brass	Light Etch
Zinc	Light Etch
Aluminum	Light Etch

New make up

Read the Safety and Handling Instructions below before using this product.

Fill tank 2/3 of its working volume with room temperature water. Add the recommended amount of ProClean PE-170. Add water to working solution level. Mix well. Raise temperature to operating range.

Use Parameters

Concentration Range	¼-2% typically.
Temperature Range	75 - 150 deg. F.
Time Range	20 sec. – min.
Agitation	Spray or Dip.

Process maintenance

During processing, the alkaline content is consumed by neutralization of certain soils such as fatty acids and other contaminants. Drag out of cleaner solution also consumes cleaner. Solutions of ProClean PE-170 are maintained by additions of concentrated product to restore the alkalinity level to the recommended concentration for the particular application. Concentration of the working solution can be determined either by conductivity or by titration.



Titration Method

1. Pipette a 10 ml sample of the cleaner into a 250 ml flask.
2. Add 40 mls of deionized water.
3. Add 4 drops of phenolphthalein indicator.
4. Titrate with standard acid (0.5 N HCl) to endpoint.
5. Record the volume in mls of acid titrated.

ProClean PE-170 concentration (opg) = (mls of acid) x (normality) x 1.55

Solution Conductivity Method

This procedure measures the solution's electrical conductivity. This conductivity is proportional to the ProClean PE-170 concentration. A calibrated conductivity probe can be used. The probe activates a pump, which delivers the required amount of ProClean PE-170, maintaining optimum concentration. Contact Hubbard-Hall for further information and equipment recommendations.

Equipment selection

Filters	Optional 50 micron poly
Exhaust	Recommended
Tank	Steel Reinforced Polypro
Heating/Cooling	Steel Heating Coils

Safety and handling instructions

The use, handling, and storage of this product may involve certain hazards.

Please refer to Material Safety Data Sheet for more information.

ProClean PE-170 is strongly alkaline and should be handled with the same precautions as caustic soda. Avoid contact with skin or eyes.

Waste Disposal

Neutralization of rinsewater pH and removal of certain metal precipitates in accordance with regulations may be required. Any surfactants present in this product are biodegradable.



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Product Bulletin

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

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