



**Clear Solutions USA**

# AntiPro EP-3M

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## Technical Data Sheet

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### **LOW FOAM SURFACTANT SYSTEM FOR STRONG CAUSTIC & ACID SOLUTIONS**

#### **DESCRIPTION**

**AntiPro EP-3M** is a very low foaming surfactant system which is readily soluble in 50% Caustic Soda solutions without the need for prolonged mixing or heating. In addition it is also stable in mineral acids including hydrochloric, phosphoric and nitric acids. This brand new, patented technology exhibits the following attributes when formulated at a 600 ppm use level into final working solutions:

- Extremely low surface tensions around 19 dynes/cm depending on formulation. Provides the lowest known surface tension properties from a commercially available surfactant system to 50% Caustic Soda solutions and their use dilutions.
- Quick dynamic surface tension lowering resulting in fast wetting and spreading on various hydrophobic substrates.
- Extremely low foam properties making this product suitable for many industrial cleaning processes.
- Soluble in 50% NaOH, 45% KOH, 25% HCl, 20% HNO<sub>3</sub>, and 85% H<sub>3</sub>PO<sub>4</sub>.
- Does NOT contain any California Proposition 65 listed chemicals.
- Can reduce either the NaOH consumption or the cleaning cycle time by as much as 50%.
- Light color with minimal odor.
- Applications include food, brewery, draft beer lines, dairy, poultry, egg, car & truck, strong caustic or acidic cleaners. Also includes paint and coating strippers, oil field and pulp & paper applications.

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## FORMULATION TIPS

For best results AntiPro EP-3M should be formulated at a use level of **600 ppm** (or 0.060% by weight) use level in the cleaner's final working solution. For example, if a 50% Caustic Soda-Based Cleaner Concentrate is designed to be diluted to a 3% active sodium hydroxide level (which would indicate a 6% solution of 50% sodium hydroxide in water) then 1.00% AntiPro EP-3M would need to be added to the Caustic Soda-Based Cleaner Concentrate in order to have a 600 ppm (Or 0.060% by weight) level of AntiPro EP-3M in the final use dilution with water.

## SPECIFICATIONS

Appearance	Clear, light amber liquid
Odor	Bland odor
Solids (Actives) %	20.5 - 22
Specific Gravity	1.065
pH (as is)	7.5 – 9.5

## CERTIFICATIONS

NSF Approved: NSF Reg. #154020. AX (Ingredients for use in Cleaning Products)  
21 CFR 176.170: Components of paper and paperboard in contact with aqueous and fatty foods.  
21 CFR 176.180: Components of paper and paperboard in contact with dry food.  
Does not contain any California Proposition 65 chemicals.  
Does not contain any GMOs, allergens and meets Kosher guidelines.  
Listed on DSL Canada.

## PERFORMANCE PROPERTIES

Surface Tension, 600 ppm AntiPro EP-3M in 3% NaOH	19.44 dynes/cm
Ross Miles Foam Tests, 0.1% AntiPro EP-3M in 1% NaOH	3 mm foam (0 mm in < 5 seconds)

## STANDARD PACKAGING

AntiPro EP-3M is available in 55-gallon drums and bulk packaging.

## SHELF LIFE

AntiPro EP-3M has a shelf life of 2 years.