



Clear Solutions USA

CLEAR SOL CHLOR LF

Technical Data Sheet

LOW FOAM SURFACTANT SYSTEM FOR SODIUM HYPOCHLORITE & STRONG OXIDIZING SOLUTIONS

DESCRIPTION

ClearSol CHLOR LF is a low foaming surfactant system which is readily soluble in 12% active sodium hypochlorite (bleach) solutions as well as other oxidizers including hydrogen peroxide. This brand new, patented technology exhibits the following attributes when formulated at a 2000 ppm use level into final working solutions:

- Extremely low surface tensions of 17-19 dynes/cm or lower depending on formulation. Provides the lowest known surface tension properties from a commercially available surfactant system to sodium hypochlorite and other strong oxidizing solutions.
- 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 including spray cleaning.
- Also soluble in highly alkaline and acidic solutions.
- Does NOT contain any California Proposition 65 listed chemicals.
- Can reduce either the NaOCl 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, highly alkaline or acidic cleaners.

FORMULATION TIPS

For best results ClearSol CHLOR LF should be formulated at a use level of **2000 ppm** (or 0.20% by weight) use level in the cleaner's final working solution. For example, if a 5% Sodium Hypochlorite-Based Cleaner Concentrate is designed to be diluted to a 1% active sodium hypochlorite level (which would indicate a 20% dilution in water) then 1% ClearSol CHLOR LF would need to be added to the Sodium Hypochlorite-Based Cleaner Concentrate in order to have a 2000 ppm (or 0.20% by weight) level of ClearSol CHLOR LF in the final 20% by weight use dilution with water.

SPECIFICATIONS

Appearance	Clear, light amber liquid
Odor	Bland odor
Solids (Actives) %	40 - 41
Specific Gravity	0.9659
pH (as is)	7.0

PERFORMANCE PROPERTIES

Surface Tension, 1% ClearSol CHLOR LF, 6% active NaOCl	17.41 dynes/cm
Ross Miles Foam Tests, 0.1% ClearSol CHLOR LF in 1% NaOCl	16 mm foam

STANDARD PACKAGING

ClearSol CHLOR LF is available in 55-gal drums, 275-gal totes, 330-gal totes, and bulk packaging.

SHELF LIFE

ClearSol CHLOR LF has a shelf life of 2 years.