

DeMOX CSG-30ECO

DeMOX CSG-30ECO is a readily biodegradable, modified amine oxide used to produce clear, stable, colorless sodium hypochlorite or hydrogen peroxide gels. This surfactant exhibits nonionic behavior in alkaline systems and cationic in acid systems.

SPECIFICATIONS

Appearance @ 25°C:	Clear to hazy viscous liquid
pH (10% in DI water):	6.0 – 9.0
Color (Gardner):	1.0 max.

SOLUBILITY DeMOX CSG-30ECO is soluble in water, alcohol and glycols. Insoluble in most solvents and oils.

TYPICAL PROPERTIES

Density @ 25°C	~0.96 g/ml
% Activity:	~30.0 – 33.0%

- Sodium Hypochlorite and Hydrogen Peroxide stable
- Gelling agent and viscosity builder
- Stable in alkaline & acid systems
- Good wetting properties
- Readily biodegradable
- Approved for use as inert in non-food pesticide & disinfectant formulations

APPLICATIONS

- Fabric Pre-Spotter gels
- Toilet Bowl Cleaners
- Vertical Surface Bleach
- Food Plant Sanitizers
- Sanitizing Formulations
- Mold cleaners
- Drain Cleaners

Continued

PEROXIDE FORMULATIONS

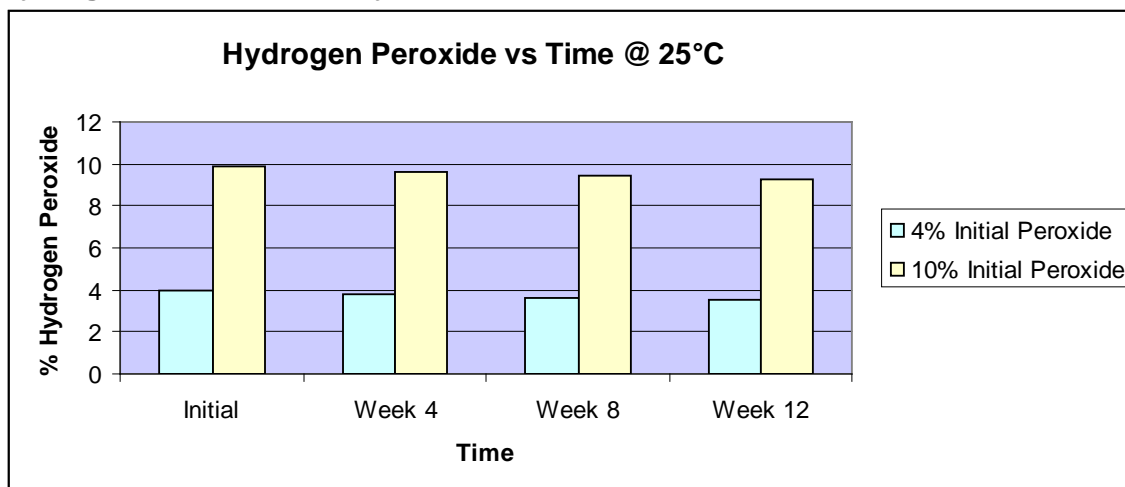
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DeMOX CSG-30ECO can be used to create stable, clear hydrogen peroxide gels.

	<u>4% Peroxide</u>	<u>10% Peroxide</u>	<u>Function</u>
Deionized Water	73.00	55.90	Diluent
DeMOX CSG-30ECO	15.00	15.00	Detergency, Viscosity
Citric Acid (50%)	0.50	0.50	pH control
Hydrogen Peroxide (35%)	<u>11.50</u>	<u>28.60</u>	Sanitizer
	100.00	100.00	

Procedure:

Add first three ingredients and mix well. Add hydrogen peroxide last and mix well to form a visco-elastic gel.

Hydrogen Peroxide Stability Data**Raw Data**

	4% Peroxide Formulation	10% Peroxide Formulation
Initial	3.99	9.92
Week 4	3.81	9.61
Week 8	3.65	9.42
Week 12	3.53	9.27

Continued

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SODIUM HYPOCHLORITE FORMULATIONS USING DeMOX CSG-30ECO

(Continued)

DeMOX CSG-30ECO has been optimized for high viscosity response in sodium hypochlorite formulations. In the formulation below, **DeMOX CSG-30ECO** produces a gelled chlorinated cleaner with viscosity 4 times higher than a competitive amine oxide thickener.

Viscous Chlorinated Cleaners

CHLOR-10

<u>Ingredient</u>	<u>A</u>	<u>B</u>	<u>Function</u>
DI Water	50.5	50.5	Diluent
NaOH (50%)	2.0	2.0	pH control
DeMOX CSG-30ECO	7.5	0	Viscosity Control/Detergency
Competitive Thickener	0	7.5	
NaOCl (12%)	40.0	40.0	Sanitizing
Viscosity* (cPs)	1,100	280	

* Brookfield RVT, Spindle 3 @ 50 rpm

Procedure:

Add first three ingredients and blend well to form a clear viscous liquid. Add sodium hypochlorite last and blend to form a viscous chlorine containing gel. Addition of NaOH (50%) above the amount specified will raise the viscosity of the system.

Gel Sanitizing Vertical Surface Cleaner

CHLOR - 11

	<u>% by Weight</u>	<u>Function</u>
DI Water	40.0	Diluent
NaOH (50%)	5.0	Viscosity control
DeMOX CSG-30ECO	15.0	Detergency, Viscosity control
Sodium Hypochlorite (10.0%)	<u>40.0</u>	Sanitizing
	100.0	

Procedure:

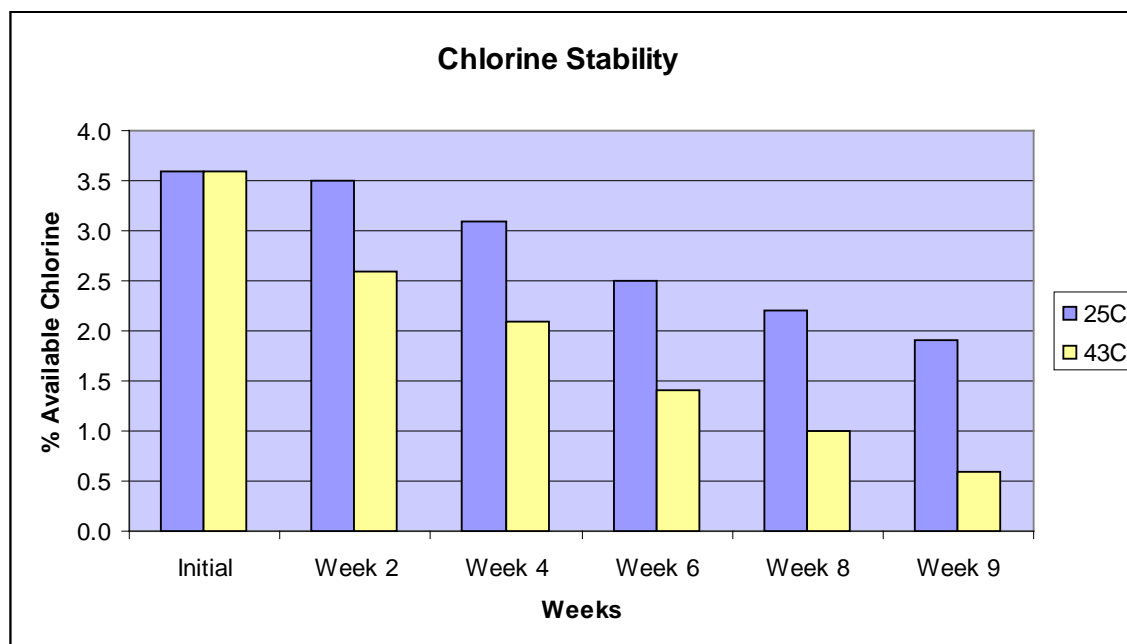
Add first 3 ingredients and mix well until fully dissolved. Add the chlorine bleach last, mixing well as it is added. A visco-elastic gel is formed.

Continued

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Chlorine Stability Data - 4% Active Chlorine Formulation (Chlor-11)



Raw Data – 4% Active Chlorine Formulation

	25C	43C
Initial	3.6	3.6
Week 2	3.5	2.6
Week 4	3.1	2.1
Week 6	2.5	1.4
Week 8	2.2	1.0
Week 9	1.9	0.6

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