



Cola[®]Teric CA-35

INCI NAME: Sodium Cocoamphopropionate
CAS # 68604-71-7

DESCRIPTION

Cola[®]Teric CA-35 is a high foaming amphoteric surfactant that provides effective detergency, wetting, and hydrotrope properties in various electrolyte systems. It produces high foam and dense lather [Ross-Miles foam (0.1% aq.) 160mm – initial, 160mm – after 5 minutes].

Cola[®]Teric CA-35 is completely salt-free and offers the formulator the opportunity of reacting **Cola[®]Teric CA-35** with any acid or base he or she chooses to prepare the corresponding salt. This avoids the contamination of the product with unwanted inorganic salts.

Cola[®]Teric CA-35 offers excellent chemical stability, solubility and surface active properties, making this compound a valuable aid in formulating a wide range of cosmetic, household and industrial products.

The low irritation of **Cola[®]Teric CA-35**, along with its high foaming and dense foam properties, make this product ideal for shampoos, bubble baths and skin cleansers.

Cola[®]Teric CA-35 is ideally suited for medium to high foam floor cleaners, metal cleaners and other high electrolyte detergents. **Cola[®]Teric CA-35** is compatible with high electrolyte solutions and is stable in strong acid alkalis. Solutions of 10% **CA-35** are stable in 25% NaOH and also in 10% H₂SO₄.

PERFORMANCE DATA

Surface Tension Reduction vs. Concentration @ 25°C

% Active Cola [®] Teric CA-35 in use dilutions	Surface Tension (dynes/cm)
1.000	30.4
0.100	29.5
0.010	30.5
0.001	33.0

Hydrotrope Properties

Active weight % Cola[®]Teric CA-35 required for 70°C Cloud Point

% Nonionic *	% NaOH		
	5	10	15
1	0.38	1.07	2.86
3	1.28	3.76	9.62
5	2.15	6.42	---

* Igepal CO – 710 (Rhône-Poulenc)

TYPICAL PROPERTIES

Appearance	Amber Liquid
pH (10% Solution)	5.5 – 6.0
Specific Gravity (25°C)	1.02
% Activity	35

Solubility in electrolytes: 10% **CA-35**

% Sodium Chloride Solution

10%	Clear
20%	Clear
27% (Sat.)	Clear

% Sodium Hydroxide Solution

20%	Clear
25%	Clear
30%	Clear gel

% Sodium Metasilicate (5 H₂O) Solution

10%	Clear
20%	Clear
35%	Clear

% Calcium Chloride Solution

40%	Clear
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TYPICAL FORMULATIONS

High Foam Acid Cleaner

	% by wt.
Water	38.0
Gluconic Acid (50%)	6.0
Phosphoric Acid (85%)	54.0
Cola[®]Teric CA-35	2.0
Recommended use dilution: 2 – 4 oz./gal.	

High Foam Alkaline Cleaner

	% by wt.
Water	63.5
Sodium Hydroxide (50%)	6.5
Sodium Metasilicate Pentahydrate	20.0
Cola[®]Teric CA-35	10.0
Recommended use dilution: 2 - 5 oz./gal.	

Medicated Cream Shampoo

	% by wt.		% by wt.
I. Stearic Acid (triple pressed)	3.5	II. Allantoin	0.2
NaOH (flakes)	0.7		
Cola[®]Mid 280	6.0	III. Cola[®]Mid AL	1.0
Water	22.6	PCM	1.0
Cola[®]Teric CA-35	10.0		
Colonial SLS	50.0	IV. Coal Tar Extract	5.0
		Perfume	q.s.

Procedure: Blend all ingredients in Part I @ 65 – 70°C until a homogeneous product is obtained. Add Parts II and III to I. Cool down to 30°C, add Part IV with mixing. A flowable slurry sets up to a paste. Adjust pH to 7.0 – 8.0.

Colonial Chemical, Inc. *Natural Surfactants*

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