



Cola[®]Dol DG13

Low Foam Nonionic Blend

DESCRIPTION Proprietary Blend of Nonionic Surfactants

LISTINGS US (TSCA), Canada (DSL), Australia (AIC/AICIS), China (IECSC/IECIC), Philippines (PICCS), New Zealand (NZIoC), Taiwan (TCSI)

Cola[®]Dol DG13 is a versatile, nonionic degreaser, wetting agent, and solubilizer specifically designed for boosting industrial and household cleaning where low foam and non-streaking are essential. Cola[®]Dol DG13 can also be used as a non-VOC alternative to VOC solvents. Its high cloud point makes it desirable in applications at elevated temperature. It has low foam even at low temperature. The product is expected to be readily biodegradable.

BENEFITS

- Low foam
- Streak-free
- Fast surface wetting and penetration of soils
- Excellent degreasing at low use levels

APPLICATIONS

- CIP cleaning
- Streak-free glass cleaner
- Solar panel cleaners
- Graffiti remover
- Low foam degreasing boosters
- Low foam replacement of glycol solvents
- Rinse aid in auto dish wash

TYPICAL PROPERTIES

Appearance (@ 25°C)	Clear Liquid
Active, %	100
pH (1% aqueous)	6.0
Color Gardner '98	1
Ross Miles Foam (0.1%)	20/0/0
HLB	13

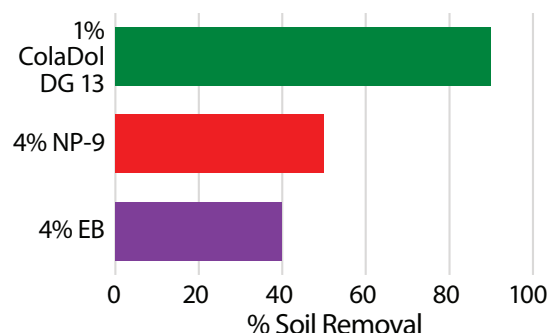


CLEANING PERFORMANCE

Cola[®]Dol DG13 outperforms various industrial benchmark surfactant or solvents in immersion degreasing tests.

Soil formula: Motor Oil, Li Grease

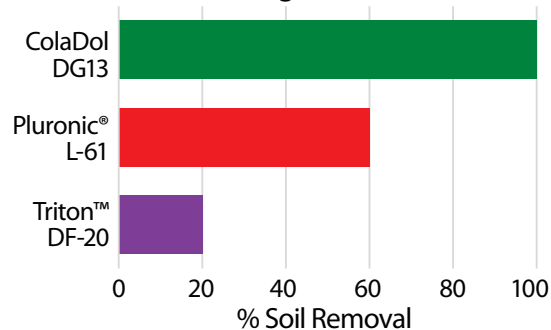
Cleaning formulation: Surfactant only



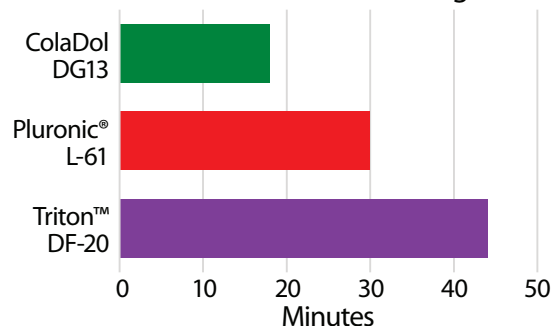
Cola[®]Dol DG13 outperforms various low-foam surfactants in immersion degreasing tests.

Cleaning formulation: Active surfactant 0.5%; NaOH (50%) 0.8%; Sodium Metasilicate 0.8%; Sodium Carbonate 0.4%; Water q.s.

% Cleaning in 20 Minutes

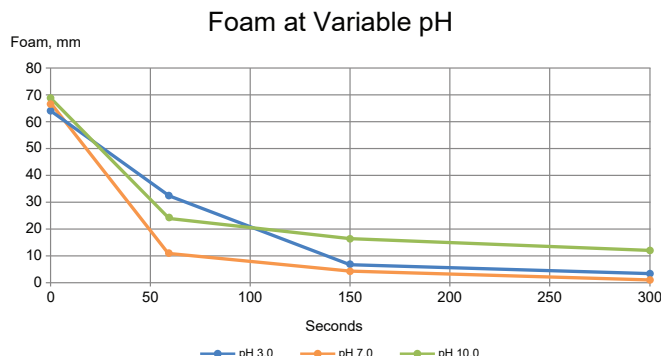


Time to Achieve 100% Cleaning, mins

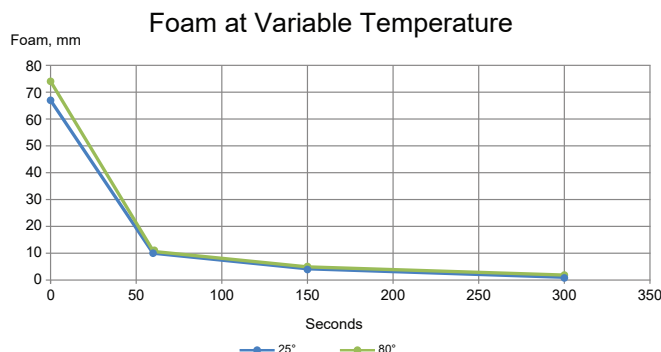


FOAM PERFORMANCE

Cola®Dol DG13 generates a modest volume of fast-breaking foam over a broad range of pH and temperature. It does not exhibit a cloud point and remains low foaming even in low temperature conditions.



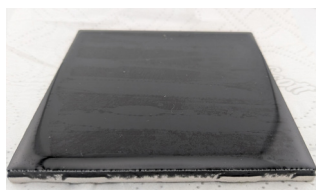
Foam was measured at 1% (as supplied) and 25°C at a variety of pH conditions using a Kruss Dynamic Foam Analyzer, DFA 100. Variability in the data is primarily related to time to break for larger bubbles. After the initial foam the bubbles coalesce quickly, resulting in low bubble counts for the majority of the study duration.



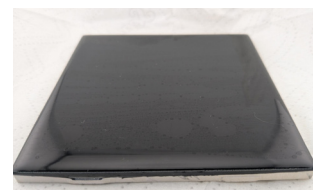
Foam was additionally measured at both room temperature (25°C) and high temperature (80°C). Higher temperatures do not increase the foaming potential of Cola®Dol DG13.

STREAKING PERFORMANCE

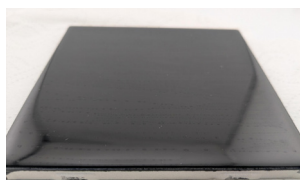
Streaking was evaluated in a “stress” test of 2.5% Cola®Dol DG13 in water (as supplied) applied to high gloss black tiles. Photos are taken at an angle to maximize visibility of streaks. Cola®Dol DG13 demonstrates modest streaking at pH 3 and is nearly streak free at pH 7 and pH 10.



Cola®Dol DG13 at 2.5% pH 3



Cola®Dol DG13 at 2.5% pH 7



Cola®Dol DG13 at 2.5% pH 10

Streak-Free Solar Panel and Glass Cleaner with Water Repellant

INGREDIENT		%
1	Water	qs to 100.00
2	Cola®Dol DG13	15.00
3	Cola®Dry DAB	1.00
4	Preservative	qs

Dilution at use: 10:1

STORAGE AND HANDLING

Cola®Dol DG13 should be stored in closed containers. Shelf life is 24 months from date of manufacture. Cola®Dol DG13 is shipped in 55-gallon drums, net weight 450 lbs (204.1 kg). Complete Safety Data Sheet may be downloaded at www.colonialchem.com.



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Innovative Specialty Surfactants