



Cola[®]Cap MA259

Low-Foam Nonionic Surfactant

DESCRIPTION End-capped nonionic surfactant
REGISTRATIONS TSCA (US), NDSL (Canada), IECSC (China), TCSI (Taiwan)

Cola[®]Cap MA259 is a 100% active, low-foaming surfactant that provides excellent product color and chemical stability over a wide pH range. Cola[®]Cap MA259 offers optimization of detergency, wetting and food soil defoaming characteristics.

Cola[®]Cap MA259 incorporates a capping group that provides unique functionality, greater biodegradability and does not interfere with wetting, detergency or surface activity. It is also structurally sufficient to provide good food soil defoaming properties. Cola[®]Cap MA259 develops low foaming properties without the use of propylene oxide capping that potentially could inhibit biodegradation.

BENEFITS

- Calculated HLB: **12.0 – 12.2**
- Patented, end-capped nonionic
- Low-foaming, 100% active
- Excellent stability in both alkaline and acid
- Fast wetting and excellent detergency
- Low foam at low temperatures
- Food soil de-foaming
- Works as a short-term emulsifier
- Promotes oil separation
- Readily Biodegradable >67% in 28 days, better than most EO-POs

APPLICATIONS

- Auto dishwashing and rinse aid
- Food processing
- Bottle washing
- Dairy cleaning
- Industrial wash booth and pretreatment systems
- Floor scrubbing, low-foam carpet cleaning
- High efficiency laundry
- Low foam textile wetting and processing



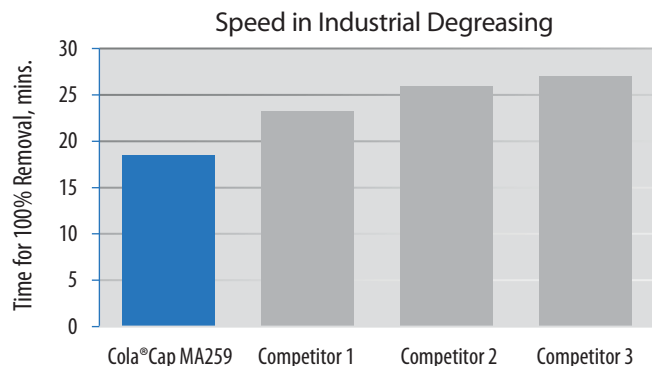
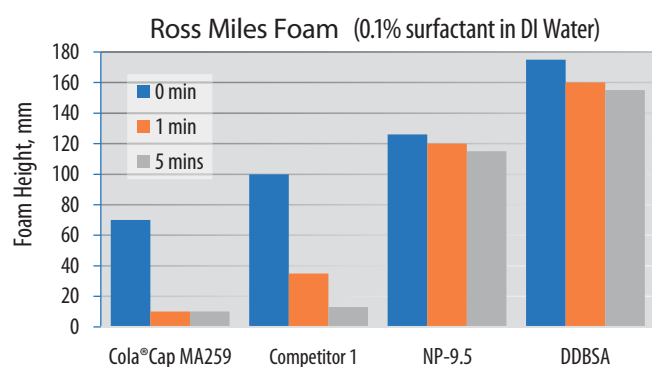
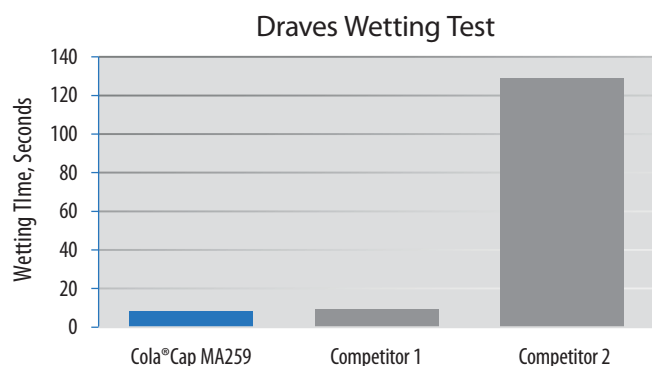
SPECIFICATIONS

Appearance	Liquid
Color, APHA	50 Max.
Active, %	~100
Moisture, K.F., %	0.5 Max
Cloud Point, °C	23 – 29
Surface Tension in DI, Dyn/cm	31 – 34
Ross-Miles Foam Height, mm (0.1% active in 2% NaOH)	
Immediate	20
1 minute	15
5 minutes	5
Draves Wetting, sec (0.1% active)	8



COMPETITIVE TESTING

Cola®Cap MA259 met and outperformed many leading industry products used in similar applications when tested for performance. Complete testing information with specific metrics is available upon request.



Time-based degreasing test performed with industrial grease and motor oil on slides in agitated formulation of 0.5% NaOH, 0.2% EDTA, 0.3% SMS, 1.0% surfactant.

PERFORMANCE

Acid Stability

Cola®Cap MA259 was tested for stability at room temperature (1 hour) and for 5 minutes at boiling in hydrochloric acid, sulfuric acid, and phosphoric acid, all at 1 N. There is no change in cloud point after treatment with these acids.

Biodegradability

Cola®Cap MA259 was tested for biodegradability, under OECD 301D test conditions and showed a biodegradability of greater than 67% after 28 days.

FORMULATIONS

Low Foam Metal Cleaner

INGREDIENT	%
1 Water	55.0
2 Sodium Hydroxide (45%)	20.0
3 Sodium Metasilicate 5H ₂ O	10.0
4 Cola®Teric ZF-50	12.0
5 Cola®Cap MA259	5.0

Dilute at use: 40-60:1

Commercial Auto Dishwashing Liquid

INGREDIENT	%
1 Water	73.0
2 Sodium Hydroxide (45%)	6.0
3 Sodium Metasilicate 5H ₂ O	8.0
4 Chelating Agent	6.0
5 Cola®Tropo INC	5.0
6 Cola®Cap MA259	2.0

Dilute at use: 10ml/wash

Low-Foam Cleaning in Place Cleaner

INGREDIENT	%
1 Water	83.0
2 Sodium Hydroxide (50%)	6.0
3 Sodium Gluconate	1.0
4 Cola®Tropo CA	8.0
5 Cola®Cap MA259	2.0

Dilution at use: 20-30:1

ADDITIONAL

Cola®Cap MA259 is covered under patent #6,878,682.

STORAGE AND HANDLING

Cola®Cap MA259 is shipped in 55 gal. poly drums, net weight 396 lbs (180 kg) or bulk. Cola®Cap MA259 should be stored in closed containers. Shelf life is 12 months from date of manufacture. A Safety Data Sheet is available at www.colonialchem.com.



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