Cola®Cap MA139

Low-Foam Nonionic Surfactant

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

Cola®Cap MA139 is a 100% active, low-foaming surfactant that provides excellent product color and chemical stability over a wide pH range. Cola®Cap MA139 offers optimization of detergency, wetting and food soil defoaming characteristics.

Cola®Cap MA139 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 MA139 develops low foaming properties without the use of propylene oxide capping that potentially could inhibit biodegradation.

BENEFITS

- Calculated HLB: **11.8**
- Patented, end-capped nonionic
- Low-foaming, 100% active
- Excellent stability in both alkaline and acid
- Fast wetting and good detergency
- Low foam at low temperatures
- Food soil de-foaming
- Works as a short-term emulsifier
- Promotes oil separation
- Ultimately biodegradable

APPLICATIONS

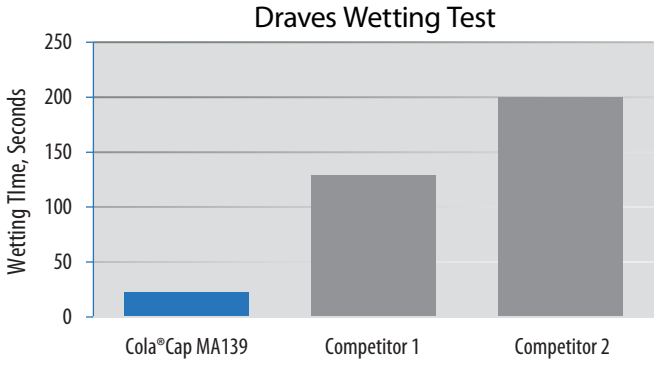
- Auto dishwashing and rinse aid
- Food processing
- Bottle washing
- Dairy cleaning
- Industrial wash booth and pretreatment systems
- Floor scrubbing, low-foam carpet cleaning
- High efficiency laundry
- Low foam textile wetting and processing

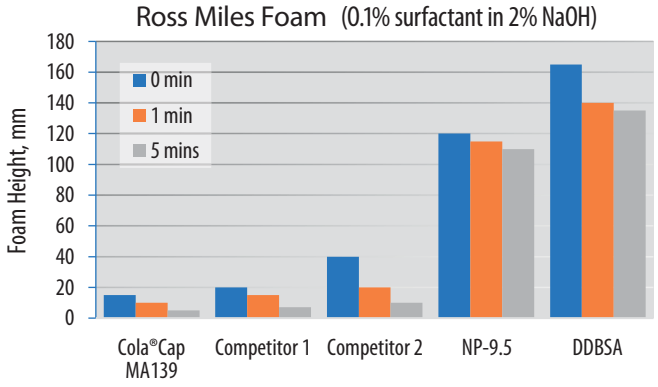
SPECIFICATIONS

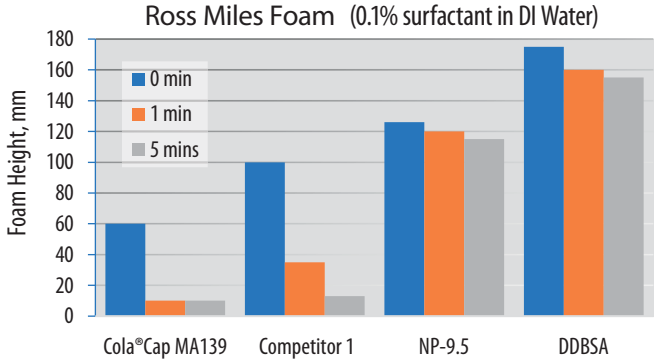
Appearance	Liquid
Color, APHA	50 Max.
Active, %	~100
Moisture, K.F., %	0.5 Max
Cloud Point, °C	17 – 20
Surface Tension in DI, Dyn/cm	30 – 33
Ross-Miles Foam Height, mm (0.1% active in 2% NaOH)	
Immediate	15
1 minute	10
5 minutes	5
Draves Wetting, sec (0.1% active)	22

COMPETITIVE TESTING

Cola®Cap MA139 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.







PERFORMANCE

Acid Stability

Cola®Cap MA139 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.

FORMULATIONS

Oil-Split Parts Cleaner

	INGREDIENT	*%*
1	Water	55.0
2	Sodium Hydroxide (45%)	20.0
3	Sodium Metasilicate $5H_2O$	10.0
4	***Cola®Teric ZF-50***	12.0
5	***Cola®Cap MA139***	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 $5H_2O$	8.0
4	Chelating Agent	6.0
5	***Cola®Trope INC***	5.0
6	***Cola®Cap MA139***	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®Trope CA***	8.0
5	***Cola®Cap MA139***	2.0

Dilution at use: 20-30:1

ADDITIONAL

Cola®Cap MA139 is covered under patent **#6,878,682**.

STORAGE AND HANDLING

Cola®Cap MA139 is shipped in 55 gal. poly drums, net weight 396 lbs (180 kg) or bulk. Cola®Cap MA139 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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