



Colonial ZF-25

Low-Foaming Surfactant Concentrate

DESCRIPTION Low-Foaming Concentrate for up to 25% Caustic

LISTINGS USA (TSCA); Canada (NDSL); Korea (KECI); Philippines (PICCS), New Zealand (NZIOC)

Colonial ZF-25 is a low foaming concentrate for up to 25% caustic. It is a surfactant product made to be easily soluble in concentrated alkaline solutions at room temperature but exhibit low foaming nonionic behavior at elevated temperatures after dilution to end use concentrations. Colonial ZF-25 is designed to provide superior detergency characteristics in the presence of strong electrolytes used in soak tanks, sprays, pipeline cleaners, and low-foaming scrubbers.

SPECIFICATION

Appearance, 25°C	Clear liquid
% Moisture	49.0 – 51.0
pH (as is @ 25°C)	7.0 – 8.5
Color, Gardner '98	<1

Ross Miles Foam (0.1% active)

Immediate	55 mm
1 minute	20 mm
5 minutes	5 mm

CLOUD POINTS (°C) FOR ZF-25 IN NaOH

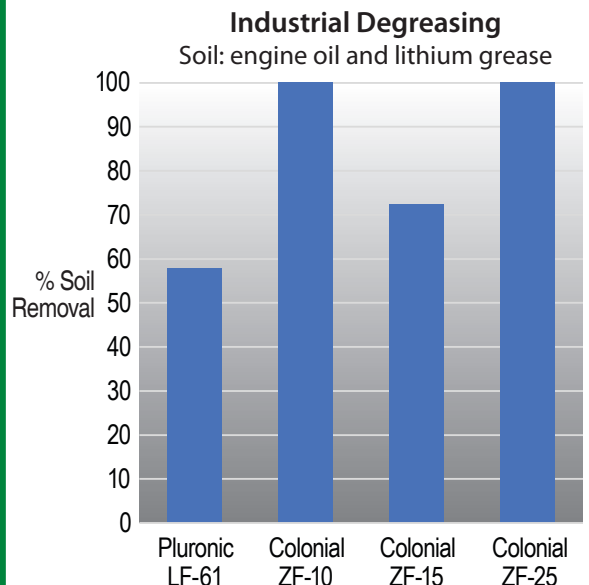
% NaOH	3% Active ZF-25	5% Active ZF-25
5	—	28°C
10	—	32°C
15	31°C	32°C
20	48°C	41°C
25	78°C	88°C

SOLUTION PROPERTIES FOR ZF-25

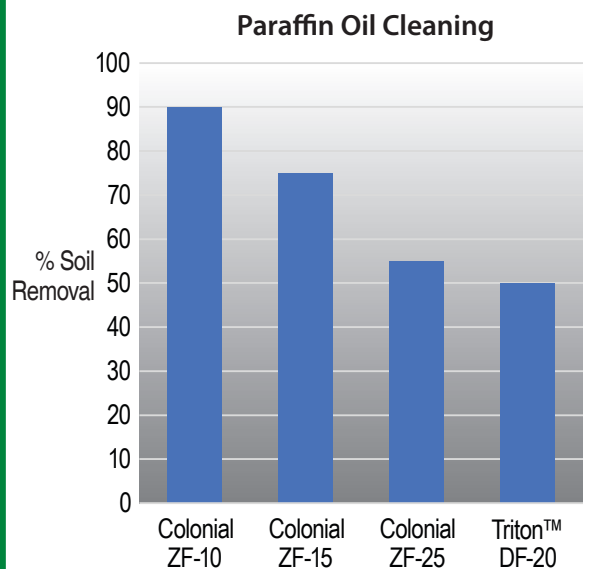
Draves Wetting Time (secs)	12
Cloud Point	32°C
Surface Tension (dynes/cm)	34.8

Test Condition 1.0% ZF IN 0.5% NaOH

PERFORMANCE TESTING



Solution containing 0.5% active surfactant, 0.8% sodium hydroxide (50%), 0.8% sodium metasilicate, 0.4% sodium carbonate



Solution containing 0.5% active surfactant, 0.8% active sodium hydroxide, 0.8% sodium metasilicate, and 0.4% sodium carbonate

Steam Cleaner

INGREDIENT	%
1 Water	qs to 100.00
2 Potassium Hydroxide (45%)	7.0
3 Anhydrous Sodium Metasilicate	10.0
4 Tetrapotassium Pyrophosphate	12.0
5 Colonial ZF-25	10.0

PROCEDURE:

Blend ingredients in order given with sufficient mixing until clear. Use at 1:15 to 1:30 dilution in water.

TYPICAL DILUTION PROPERTIES:

Cloud point: 38 °C, Krafft point <0 °C.

STORAGE AND HANDLING

Colonial ZF-25 should be stored in sealed containers below 50°C in a dry place out of direct sunlight. If the material becomes solidified or hazy during exposure to cold temperatures, heat to 30 - 35°C. Handle between 5°C and 50°C. Shelf life is 24 months from date of manufacture. Safety Data is available at www.colonialchem.com.

Colonial ZF-25 is shipped in poly drums, net weight 550 lbs/249.4 kg.



Colonial Chemical

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Innovative Specialty Surfactants