



# Colonial ZF-15

## Low-Foaming Surfactant Concentrate

**DESCRIPTION** Low-Foaming Concentrate for up to 15% Caustic

**LISTINGS** USA (TSCA); Canada (NDSL); Australia (AICS), Japan (ENCS), Korea (KECI); China (IECSC); Philippines (PICCS), New Zealand (NZIOC), Taiwan (NECI)

**Colonial ZF-15** is a low foaming concentrate for up to 15% 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-15 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
% Solids	49.0 – 51.0
pH (as is @ 25°C)	7.0 – 8.0
Color, Gardner '98	<1
Specific Gravity	1.16 – 1.18
Viscosity	900 MAX

### Ross Miles Foam (0.1% active)

Immediate	65 mm
1 minute	25 mm
5 minutes	5 mm

### CLOUD POINTS (°C) FOR ZF-15 IN NaOH

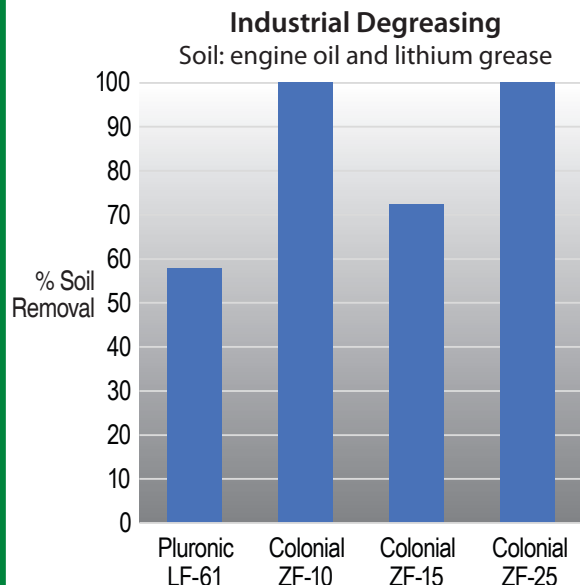
% NaOH	3% Active ZF-15	5% Active ZF-15
5	26°C	35°C
10	37°C	56°C
15	61°C	77°C

### SOLUTION PROPERTIES FOR ZF-15

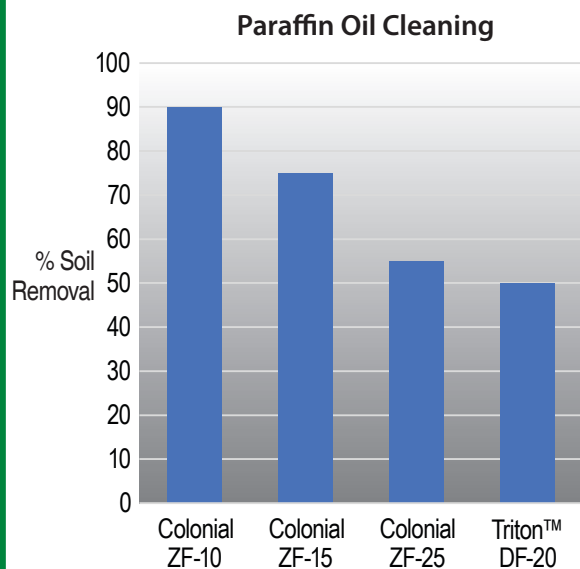
Draves Wetting Time (secs)	14
Cloud Point	32°C
Surface Tension (dynes/cm)	34.2

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

## Bottle Wash Cleaner

INGREDIENT	%
1 Water	qs to 100.00
2 Potassium Hydroxide (45%)	35.0
3 Anhydrous Sodium Metasilicate	5.0
4 Tetrapotassium Pyrophosphate	10.0
5 <b>Colonial ZF-15</b>	10.0

### PROCEDURE:

Blend ingredients in order given with sufficient mixing until clear. Use at 1:15 to 1:20 dilution in water.

### TYPICAL DILUTION PROPERTIES:

Cloud point: 42 °C, Krafft point <0 °C.

### STORAGE AND HANDLING

Colonial ZF-15 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](http://www.colonialchem.com).

Colonial ZF-15 is shipped in poly drums, net weight 525 lbs/238.1 kg.



## Colonial Chemical

225 Colonial Drive • South Pittsburg, TN 37380  
Phone: 423-837-8800 • Fax: 423-837-3888  
[www.colonialchem.com](http://www.colonialchem.com)

*Innovative Specialty Surfactants*