

## DeIONIC LF-EP-15

**DeIONIC LF-EP-15** is a very low foaming, nonionic alkoxyated alcohol having a cloud point in water of ~15°C. It has the lowest cloud point in a series of DeFOREST alkoxyates with cloud points ranging from 15°C to 61°C.

### SPECIFICATIONS

Appearance @ 25°C:	Almost colorless, clear to hazy liquid
pH (5% in DI water):	5.0 -9.0
Cloud Point (1% in DI water):	13° - 18°C
Color (Gardner):	1 max.
% Moisture:	1.0% max.

**SOLUBILITY** DeIONIC LF-EP-15 is soluble in alcohols, glycols and solvents. It is water soluble below its cloud point, dispersible above its cloud point (13° -18°C), and insoluble in oils.

### TYPICAL PROPERTIES

% Activity	99% min.
HLB (calculated)	~6.0
Density @ 25°C	~0.98 g/ml

- Very low foaming
- Good wetting
- Detergency
- Defoaming
- Acid stable
- Alkali and electrolyte stable
- Biodegradable
- Demulsifier

### APPLICATIONS

- Mechanical dishwashing detergents
- High pressure spray cleaners
- Industrial alkaline cleaners
- Dry caustic and electrolyte cleaners
- Pesticide formulations
- Industrial metal cleaning
- Bottle washing
- Textile wetting and scouring
- Agricultural sprays
- Approved for use as inert in non-food pesticide formulations and under 40CFR180.910 & 180.930

*Continued*

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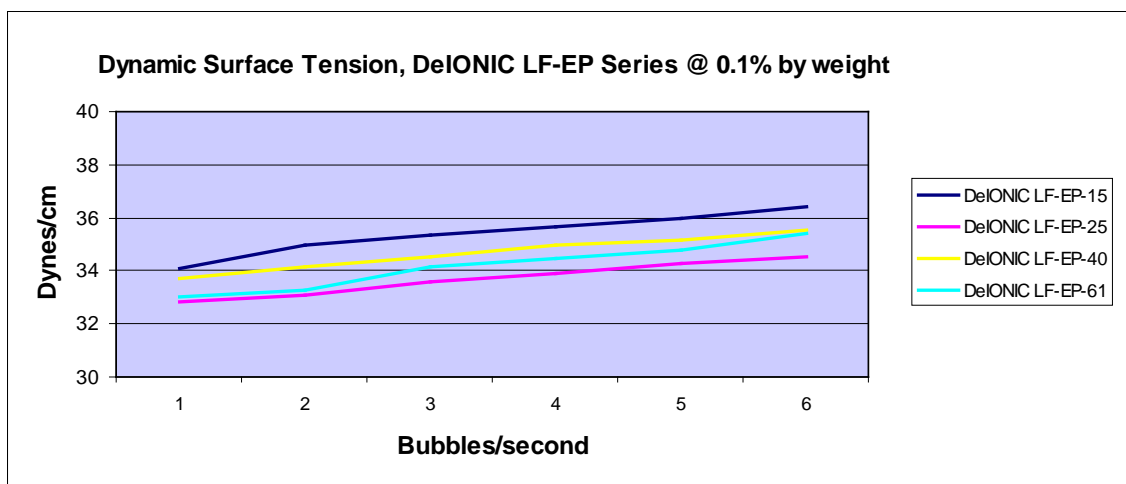
### Modified Ross-Miles Foam Height

The foam height of **DeIONIC LF-EP-15** was determined at ambient temperature at 0.1% by weight in deionized water using a modified Ross-Miles graduated cylinder shake test. It is the lowest foaming product in the DeIONIC LF-EP series with an initial foam height of only 10 mls.

	DeIONIC LF-EP-15	DeIONIC LF-EP-25	DeIONIC LF-EP-40	DeIONIC LF-EP-61
<b>Initial</b>	<b>10</b>	15	86	90
<b>30 seconds</b>	<b>0</b>	1	43	55
<b>60 seconds</b>	<b>0</b>	0	15	45
<b>2 minutes</b>	<b>0</b>	0	7	40

### Dynamic Surface Tension of DeIONIC LF-EP Series

The dynamic surface tension of the DeIONIC LF-EP series of products was determined at 0.1% by weight in deionized water at ambient temperature.



### Draves Wetting of DeIONIC LF-EP Series

Draves Wetting was at determined 0.1% by weight in deionized water at ambient temperature.

	DeIONIC LF-EP-15	DeIONIC LF-EP-25	DeIONIC LF-EP-40	DeIONIC LF-EP-61
<b>Seconds</b>	<b>5</b>	7	8	7

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