

DeIONIC LF-EP-40

DeIONIC LF-EP-40 is a moderate foaming, nonionic alkoxyated alcohol having a cloud point in water of ~40°C. It exhibits a mid-range 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): | 38° - 42°C |
| Color (Gardner): | 1 max. |
| % Moisture: | 1.0% max. |

SOLUBILITY DeIONIC LF-EP-40 is soluble in alcohols and glycols. It is water soluble below its cloud point, dispersible above its cloud point (38°- 42°C), and insoluble in oils.

TYPICAL PROPERTIES

| | |
|------------------|------------|
| % Activity | 99% min. |
| HLB (calculated) | ~8.5 |
| Density @ 25°C | ~1.01 g/ml |

- | | |
|--|--|
| <ul style="list-style-type: none"> • Moderate, fast breaking foam • Excellent wetting & detergency • Alkali & electrolyte stable • Acid stable • Low temperature liquidity • Hard water stable | <ul style="list-style-type: none"> • Suspending agent • Excellent water solubility • Non-gelling in water • Dedusting • Biodegradable |
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APPLICATIONS

- | | |
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| <ul style="list-style-type: none"> • Powdered & granular alkaline cleaners • Powdered & liquid acid cleaners • Light & heavy duty alkaline cleaners • Pickling baths • Laundry detergents • Detergent tablets • Automatic car wash products • Pesticide formulations • Wall & floor cleaners, scrub vac cleaners | <ul style="list-style-type: none"> • All-purpose hard surface cleaners • Paint brush cleaners • Cotton de-sizing • Dedusting powdered formulations • Aluminum and metal cleaners • Oven Cleaners • Approved for use as inert in non-food pesticide formulations & under 40CFR180.910 & 180.930 |
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Continued

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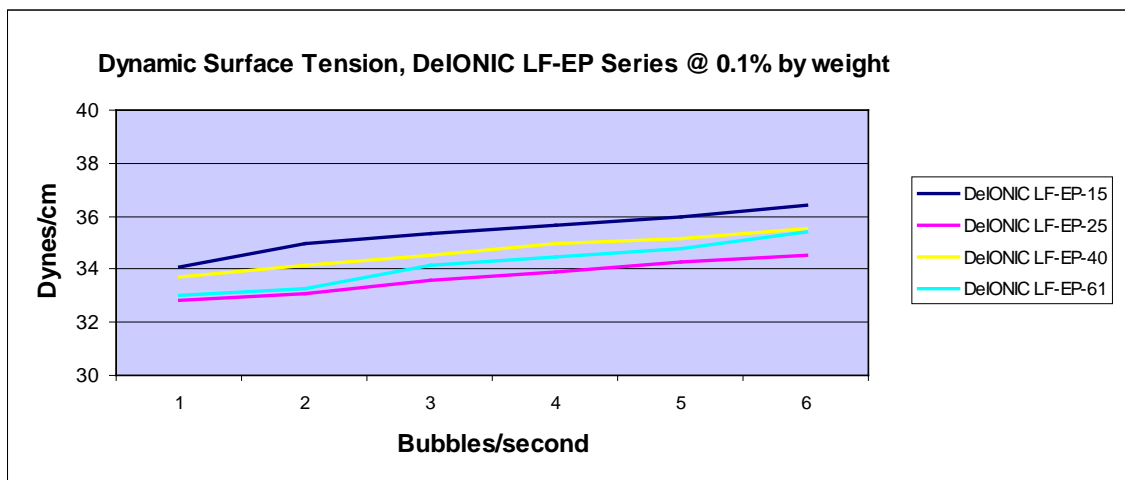
Modified Ross-Miles Foam Height

The foam height of **DeIONIC LF-EP-40** was determined at ambient temperature at 0.1% by weight in deionized water using a modified Ross-Miles graduated cylinder shake test.

| | DeIONIC LF-EP-15 | DeIONIC LF-EP-25 | DeIONIC LF-EP-40 | DeIONIC LF-EP-61 |
|-------------------|------------------|------------------|-------------------------|------------------|
| Initial | 10 | 15 | 86 | 90 |
| 30 seconds | 0 | 1 | 43 | 55 |
| 60 seconds | 0 | 0 | 15 | 45 |
| 2 minutes | 0 | 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 determined at 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 |
|----------------|------------------|------------------|-------------------------|------------------|
| Seconds | 5 | 7 | 8 | 7 |

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