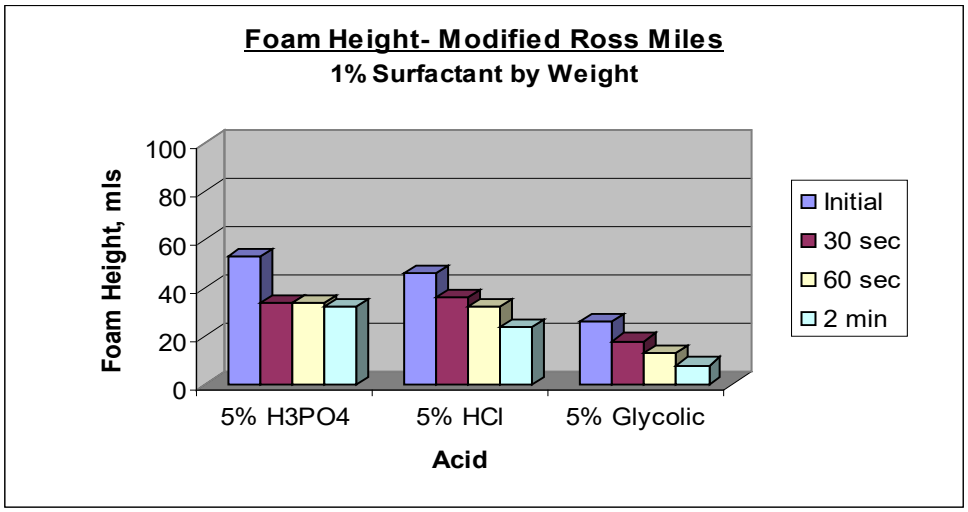
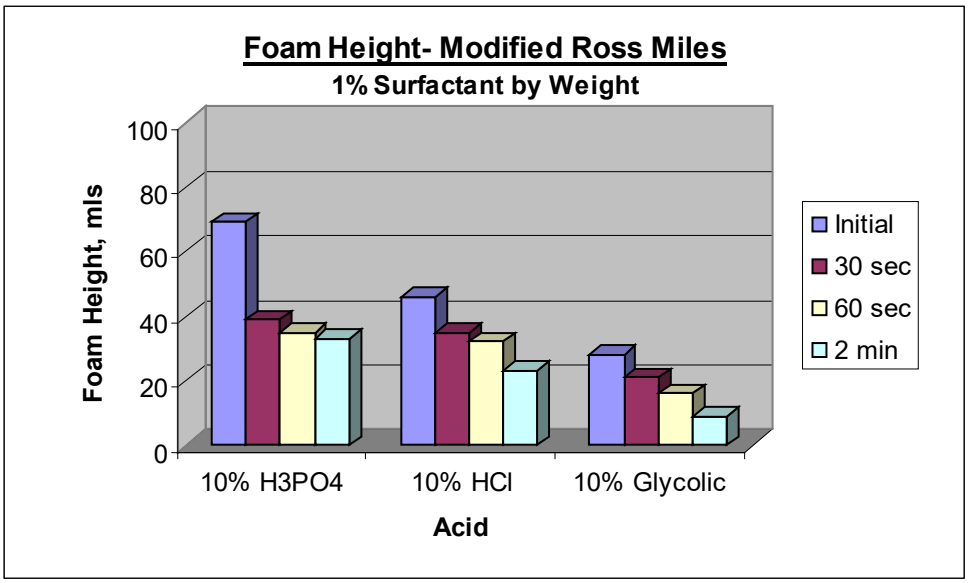
DeTERGE LF-7315 in Acid Systems

DeTERGE LF-7315 exhibits excellent stability in a variety of organic and inorganic acids at 1% – 5% and is recommended for use as a low foaming surfactant in acid systems.

FOAM HEIGHT DATA

The following charts illustrate the foam height in various acids determined via graduated cylinder shake test at ambient temperature. All solutions are clear liquids.





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CLOUD POINT DATA

The following table presents the cloud points of 1% DeTERGE LF-7315 by weight in various acids. All solutions are clear at ambient temperature.

Acid (% active)	Haze Point, °C	Cloud Point, °C
15% Phosphoric	~56	>100
15% Hydrochloric	~65	>100
15% Glycolic	>100	>100
15% Sulfuric	~50	>100
15% Nitric*	~52	>100
15% Acetic	>100	>100
30% Phosphoric	~45	>100
30% Hydrochloric	~65	>100
30% Glycolic	>100	>100
30% Sulfuric	~55	>100*
30% Nitric*	~55	>100
30% Acetic	>100	>100

*develops a pink hue

ACID STABILITY

DeTERGE LF-7315 was added at 5% by weight to various acid solutions and stored at 25°C and 43°C for 90 days. The final appearance is noted in the table below.

Acid (% active)	25°C	43°C
15% Phosphoric	Clear	Clear
15% Hydrochloric	Clear	Clear
15% Glycolic	Clear	Clear
15% Sulfuric	Clear	Clear
15% Nitric*	Clear	Clear
15% Acetic	Clear	Clear
30% Phosphoric	Clear	Clear
30% Hydrochloric	Clear	Clear
30% Glycolic	Clear	Clear
30% Sulfuric	Clear	Clear
30% Nitric*	Clear	Clear*
30% Acetic	Clear	Clear

* develops a pale brown hue

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