

## DePHOS H-66-872

**DePHOS H-66-872** is the potassium salt of an anionic phosphate ester, derived from an aromatic ethoxylate. It's a highly effective, very low foaming hydrotrope for acid and alkaline systems.

### SPECIFICATIONS

Appearance @ 25°C:	Clear, light yellow liquid
Color (Gardner):	4 max.
% Activity:	50% min.
pH (5% in DI water):	8.0 -10.0

**SOLUBILITY** DePHOS H-66-872 is soluble in water, alcohols and glycols. It is insoluble in oils and solvents.

### TYPICAL PROPERTIES

Density @ 25°C                                      1.20 – 1.26 g/ml

- Excellent caustic, alkaline electrolyte and acid stability
- Hydrotrope for nonionic surfactants in alkaline and acid systems
- Economical
- Acid stability
- Low foam

### APPLICATIONS

- Alkaline and acid cleaners
- Low foam, high pressure detergents
- Acidic concrete cleaners
- Bottle washing
- Low foam spray metal cleaners
- Metalworking formulations

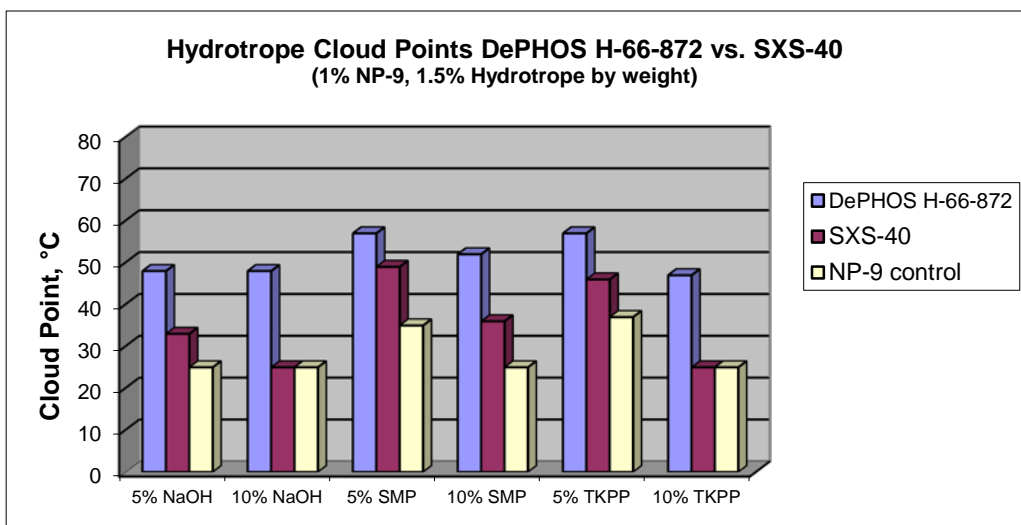
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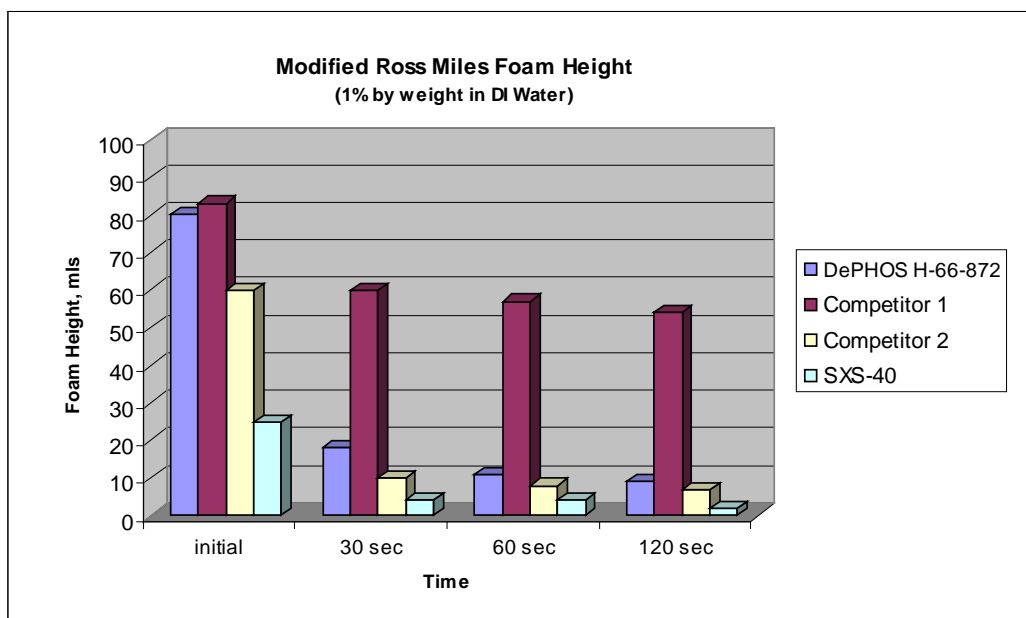
**CLOUD POINT DATA for DePHOS H-66-872**

A series of cloud point tests were performed and compared to sodium xylene sulfonate. The hydrotropes were solubilized in caustic or alkaline electrolyte solutions to which a 9.5 mole nonyl phenol ethoxylate was added. Each sample was heated to the temperature at which the nonionic clouds out of solution. The higher the cloud point temperature, the more efficient the hydrotrope. The control is 1% NPE-9.5 without hydrotrope added.



**FOAM HEIGHT DATA for DePHOS H-66-872**

Foam height was determined using a modified Ross-Miles graduated cylinder shake test. The data is presented in the following graphs and compared to competitive phosphate esters and sodium xylene sulfonate.



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**FOAM HEIGHT DATA for DePHOS H-66-872**

