

## DeTAINE PB

**DeTAINE PB** is a readily biodegradable, palmitic derived betaine acceptable for use in a wide variety of formulations including Personal Care applications (INCI name: Cetyl Betaine). This amphoteric, alcohol-free betaine produces rich, dense foam and affords good viscosity building properties. Suggested for use in acidic and alkaline formulations.

### SPECIFICATIONS

Appearance @ 25°C:	Clear to slightly hazy, viscous liquid
Color (Gardner):	1.0 max.
% Sodium Chloride:	4.0 max.
% Free Amine:	1.0 max.
% Solids:	22.5 +/- 2.5
pH (as-is):	6.0 – 9.0

**SOLUBILITY** DeTAINE PB is soluble in water, alcohols and glycols. Insoluble in most solvents.

### TYPICAL PROPERTIES

Density @ 25°C ~1.0 g/ml

- Produces rich, dense foam
- Excellent viscosity builder
- Stable in acid and alkaline systems
- Detergency
- Very low color
- Approved for use as inert in non-food use pesticide formulations
- Mildness
- Compatible with all surfactant types
- Wetting

### APPLICATIONS

- Alkaline or acid foaming cleaners
- Bowl cleaners
- Vertical surface cleaners
- Fine laundry and fabric detergents
- Manual hand dishwashing detergents
- Viscosity & foam builder for liquid detergents
- Car wash detergents
- Hand cleansers, shampoo, body wash
- Sulfate-free personal care products

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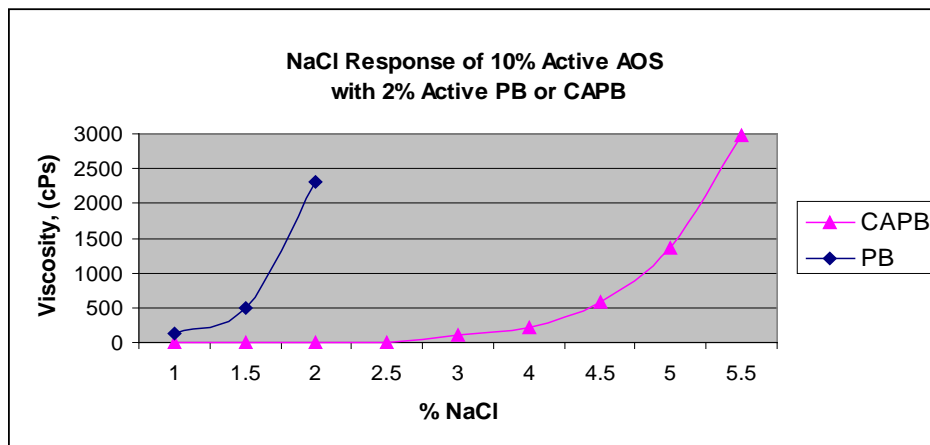
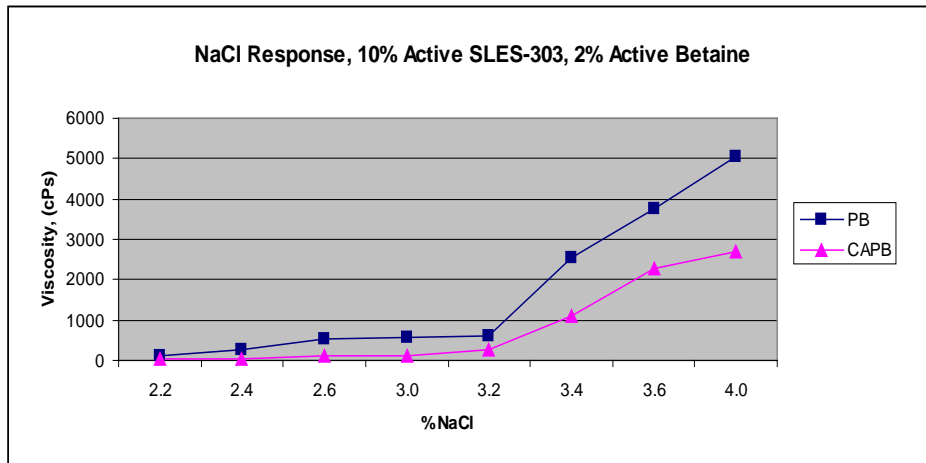
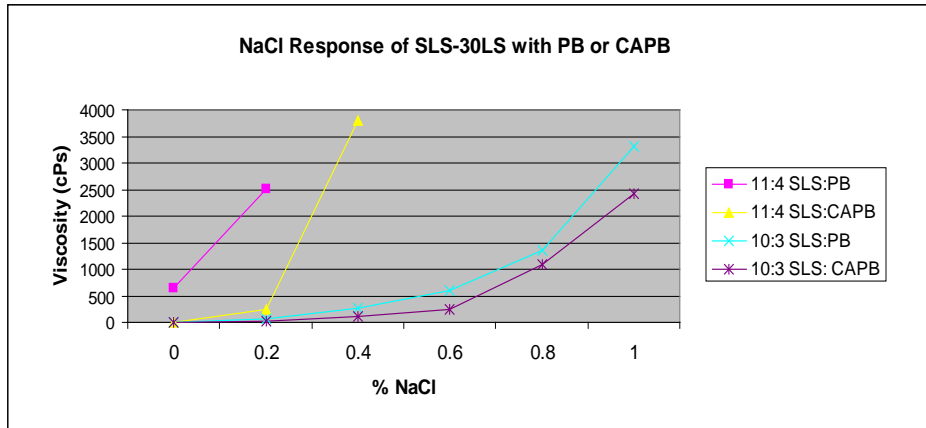
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**Viscosity Building Properties**

**DeTAINE PB** can help build viscosity in sulfate, ether sulfate, as well as in sulfate-free systems. In many cases, higher viscosity can be achieved with **DeTAINE PB** compared to cocoamidopropyl betaine and generally with lower salt levels.

Formulations were made with DI water and are based on actives. Viscosity was measured using a Brookfield RVT Viscometer at 50 rpm, Spindles 3 – 6 at ambient temperature.



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