

## Hest HVB – High Efficiency Thickener

Global Seven Hest HVB is a 100% active thickener for all types of aqueous surfactants that outperforms other similar materials. Ideal for hard to thicken systems such as Sulfate-Free surfactant systems as well as conventional surfactants including the following:

Alkyl glucosides  
Alpha olefin sulfonates  
Sarcosinates  
Sultaines  
Betaines  
Sulfates and ether sulfates

Global Seven Hest HVB is a white flaked solid that melts at about 55°C. Global Seven Hest HVB is the polyethylene glycol diester of isostearic acid and PEG-175. It functions as a replacement for amides helping increase foam stability as well as viscosity. At concentrations of up to 5% active, Hest HVB gives a viscosity 2-10 times greater than that with cocamide DEA. This means that Hest HVB can be used at substantially lower concentrations than other thickeners resulting in significant formula cost savings.

## Hest G-18-O – Anti-Microbial Moisturizing Ester

Global Seven Hest G-18-O is a non-irritating light water and alcohol soluble emollient with unique properties that delivers performance advantages in product forms of all types. Hest G-18-O is an ideal choice for use in sensitive skin applications since it is totally non-irritating. Hest G-18-O is an effective anti-microbial agent at concentrations of 1-2% or less with activity against a wide range of microorganisms including gram-positive bacteria, gram-negative bacteria, yeast and mold. Finished products using Hest G-18-O have greater resistance to microbial challenge, require lower levels of preservatives to pass challenge testing while delivering moisturization and long lasting anti-microbial protection to consumers. It can reduce or eliminate the need for conventional preservatives including parabens and formaldehyde donors. In leave-on products it also provides long lasting antimicrobial protection along with moisturization to consumers. It is an ideal choice for use in formulations that may be difficult to preserve such as sunscreens, sensitive skin products and preservative free products. Hest G-18-O is an ideal solvent for water insoluble materials. For example, Salicylic Acid is readily soluble in Hest G-18-O at room temperature. This means that Salicylic Acid, which is less irritating than other hydroxy acids can be used in exfoliation applications without the need for skin damaging solvents like ethyl alcohol resulting in reduced irritation, improved aesthetics, and increased performance. It also delivers a warming effect 2-3 times that of glycerin when applied to moist skin. It has the benefits of glycerin and glyceryl ethoxylates without the negatives like slow absorption, greasiness, tack or drag. In fact, it can eliminate tackiness and drag of other ingredients such as glycerin or gums, resins and thickeners such as carbomer. It is a slow spreading ester but it is readily absorbed. The result in formulations is added cushion and play-time on initial application, smooth non-draggy rubout and a light emollient after-feel without tack or greasiness similar to that of silicone. Since it is soluble in alcohol and water it can also be added to clear hydroalcoholic or hydrogel systems delivering a silky, soft after-feel, without tack or drag while maintaining product clarity. Use levels vary with application but are generally from 0.5-10%. When used as the sole emollient 5-10% or more may be appropriate, while in combination with other emollients 1-5% may be appropriate. Hest G-18-O delivers unique feel and consistency, increases formulation versatility, enhances aesthetics and reduces development cycle time.