



CustoPoly™

Easy to Use Polymers

Custom® INGREDIENTS, INC.

PO BOX 772
712 Wilson Street
Chester, SC 29706
803-377-1213
803-581-5802 FAX

sales@custoblend.com

CustoPoly™ E Series

CustoPoly™ E series are versatile, liquid polymers for thickening and emulsifying o/w creams and lotions.

CustoPoly™ E series polymers are:

1. Supplied as **easy to use liquids**
2. **Require no neutralization** so they can be added at any stage in the manufacturing process
3. Give light textures with easy rub into the skin. They are **non-greasy and non sticky**.

The rheology profile of these polymers helps to spread highly viscous ingredients. The products are pseudoplastic and non-thixotropic. CustoPoly™ E series polymers are shear thinning and recover instantly to their initial viscosity. Solutions of CustoPoly™ E series polymers do not show significant changes in viscosity and stability at elevated temperature.

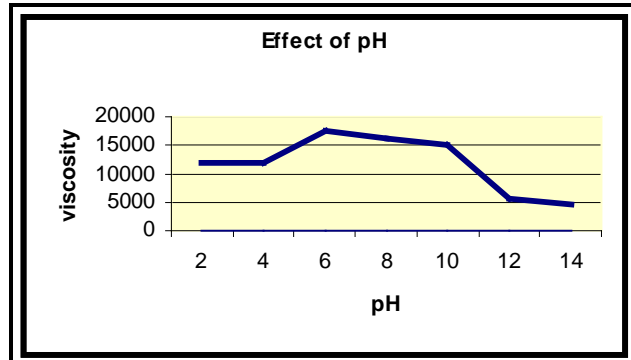
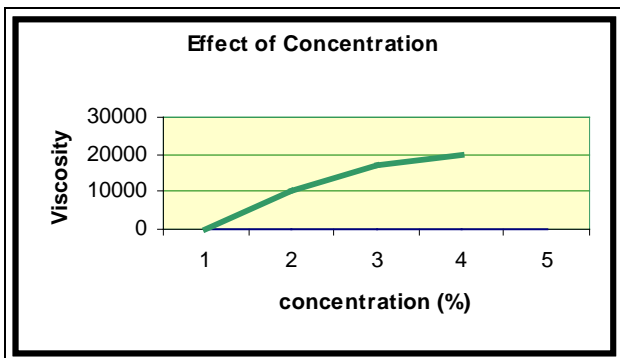
CustoPoly™ E Series polymers are useful in hair care and skin care applications. They allow formulation of highly stable suspensions and O/W emulsions in a pH range for 2- 11. Typical use levels are formulation dependent but range between 0.3-6 %

TOXICOLOGY : Eye Irritation : Non irritant Skin Irritation : Non irritant

PRODUCT SPECIFICATIONS:

CustoPoly™ E-3 is an anionic acrylic dispersion in medicinal grade mineral oil (Paraffinum Liquidum).

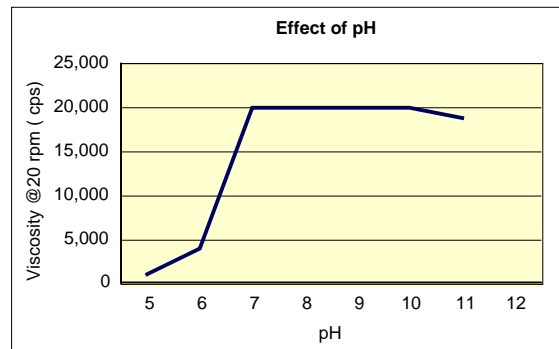
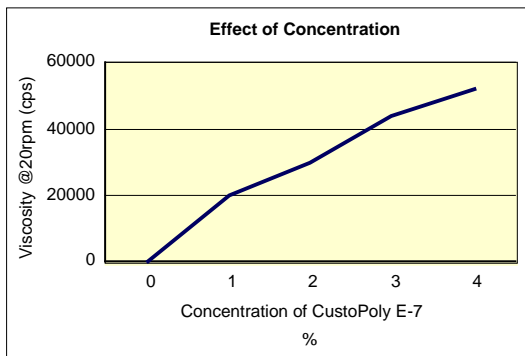
It is typical used to thicken and **stabilize low pH** O/W emulsions.



INCI NAME: Sodium Acrylate/ Sodium Acryloyldimethyl Taurate Copolymer, Mineral Oil (Paraffinum Liquidum) and Trideceth 6

CustoPoly™ E-7 is an anionic acrylic dispersion in medicinal grade mineral oil (Paraffinum Liquidum).

It is typical used to thicken and stabilize O/W emulsions.



INCI NAME: Sodium Polyacrylate, Mineral oil (Paraffinum Liquidum) , Trideceth- 6

CustoPoly™ J Series

CustoPoly™ J series are acrylic based polymers in powder form typically used for thickening and suspension of solid particles in aqueous solutions. These polymers swell to form clear gels at room temperature and retain their structure even at elevated temperatures. Formulators can expect to obtain higher clarity and higher viscosity over typical acrylate thickeners in the market with the CustoPoly™ J series.

PRODUCT SPECIFICATIONS:

CustoPoly™ J-400 is a thickening agent for aqueous solutions with a high yield value. It is an effective emulsion stabilizer and forms stable suspension of solids in gels.

CustoPoly™ J-400D is an **easy to use powder** with a short dissolution time. This polymer allows gel formation without the aid of neutralization.

CustoPoly™ J-400C is a **high clarity** thickening agent for aqueous solutions with a high yield value.

CustoPoly™ Conditioning Polymers

CustoPoly™ 106 and 107 are cationic polymers, which allows a formulator to incorporate conditioning into aqueous formulations **without sacrificing clarity or foam of surfactants**.

In hair **CustoPoly™ 106 and 107** form electrostatic combinations with negatively charged hair

1. To reduce static flyaway
2. Improve wet comb ability
3. Increase shine and softness and body to hair,

In skin care applications, **CustoPoly™ 106 and 107** improves

1. The spread ability of the product
2. Give skin a soft velvety feel and a non-greasy after feel

The high solubility in water and the compatibility with all types of surfactants make 106 and 107 excellent ingredients for hair care, bath and skin cleansers. Typically, one can incorporate between 8-12 % active anionic material without encountering any haziness.

CustoPoly™ 106 INCI Name: Polyquaternium 6

CustoPoly™ 107 INCI Name: Polyquaternium 7



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