

FVC-E50(Viscocare-EG50F)

CHARACTER

- Is a flowable emulsion-type consisting of Acryl polymer, isohexadecane and Polysorbate-80.
- Improves emulsion stability of cosmetics & resistance to electrolytes
- Sensory of FVC-E50(Viscocare-EG50F) is rapidly absorbed by the skin, light, non-tacky touch.
- FVC-E50(Viscocare-EG50F) increases viscosity over a wide range of pH and has stability.

APPLICATION

- Care (Face, Body, Sun, Hair, Baby)
- Self-tanning
- Make-up
- Personal care

COMPOSITION

- Classification : Synthetic polymer
- INCI Name :
Sodium acrylate/Sodium acryloyldimethyl taurate copolymer & Isohexadecane & Polysorbate 80
- CAS No. :
77019-71-7 / 4390-04-9 / 9005-65-6
- EINECS No. :
N/A / 297-628-2 / 500-019-9
- CHINA : listed in IECIC

SPECIFICATION

No	Inspection	Unit	Specification
1	Appearance	-	Fluid emulsion
2	2% pH		5.0 ~ 7.0
3	2% Viscosity	cps	55,000 ~ 80,000
4	Direct Viscosity	cps	1,000 ~ 4,500
5	Solid content	%	44 ~ 48

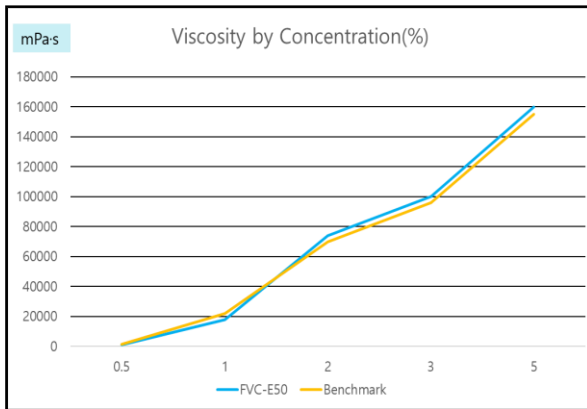
Typical Characteristics

- Is very easy to use, just add to your formulation after mixing oil and water phases to enhance stability and modify rheology.
- Is convenient emulsifier, rheology modifier, thickener, and acting as a stabilizer.
- Input use at all stages of the process, cold & hot process is possible, and no need for neutralization.
- Self-emulsifying and emulsifying up to 40% of oil.
- Is possible to increase the viscosity in the pH range of 3-12, and it has excellent resistance to electrolyte and thickening power.
- Acts as a conditioning agent for the hair and prevent static electricity to facilitate hair care
- Sensory profile :
- Rich, silky texture, - Rapidly absorbed by the skin,
- light, non-tacky touch.
- Packaging unit : 20KG/ PE drum
- Self life: 3 years
- Proper storage temp.: Indoor storage < 35°C
- Please refer to the COA and MSDS for more details

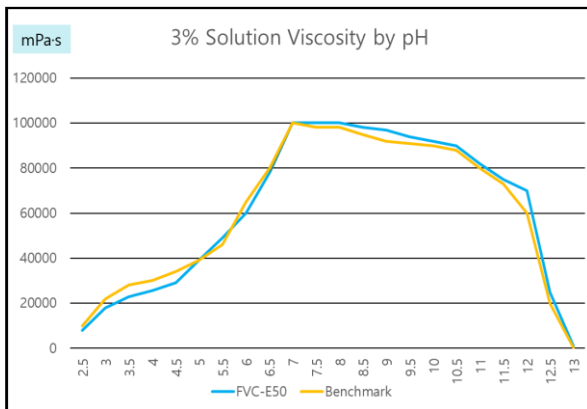
The specifications and typical characteristics are approximate figures and they are not to be construed as warranties.

Thickening Efficiency FVC-E50(Viscocare-EG50F)

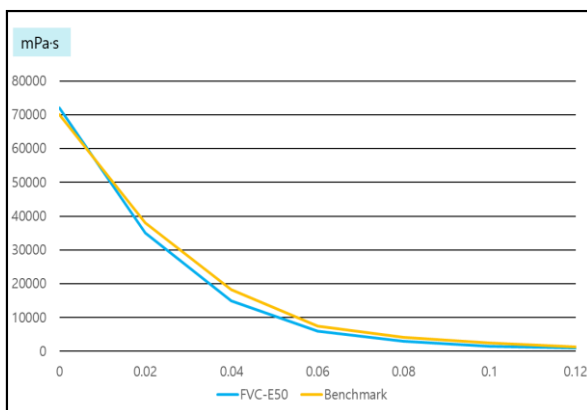
Effect of concentration on the viscosity of FVC-E50(Viscocare-EG50F)



- Concentration 0.5 – 5.0 %
- RVT Viscometer
- The **FVC-E50(Viscocare EG50F)** viscosity profile is very similar to the benchmark one



- For test of viscosity variation as pH
- 3% **FVC-E50(Viscocare-EG50F)** solution(in Water)
 - Add Lactic acid or 10% NaOH solution and measure the viscosity.
 - Maintain from pH 3.0 to 12 of high viscosity



- Effect of Salt(NaCl) on the viscosity of **FVC-E50(Viscocare-EG50F)**.
- For testing resistance on electrolytes
 - Add various weight of NaCl to 2% **FVC-E50(Viscocare-EG50F)** solution(in water) and measure the viscosity.
 - Decreasing trend of viscosity is similar