

## FVC-W90 (Viscocare-W90F)

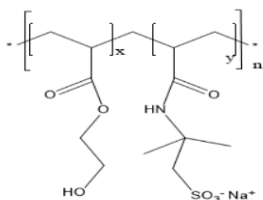
### CHARACTER

- FVC-W90 (Viscocare-W90F) is a ready-to-use powder type polymer without E.O.
- FVC-W90 (Viscocare-W90F) increases viscosity over a wide range of pH and has stability.
- FVC-W90 (Viscocare-W90F) is an additive which can be also used in transparent products.

### APPLICATION

- Care ( Face, Body, Sun, Hair, Baby )
- Self-tanning
- Make-up
- Hygiene ( facial cleanser, shower gel etc.. )

### COMPOSITION



- Classification : Synthetic polymer
- INCI : Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Sorbitan Isostearate, Water
- CAS No. : 111286-86-3
- EINECS No. : 601-067-4
- CHINA : listed in IECIC

### Specification

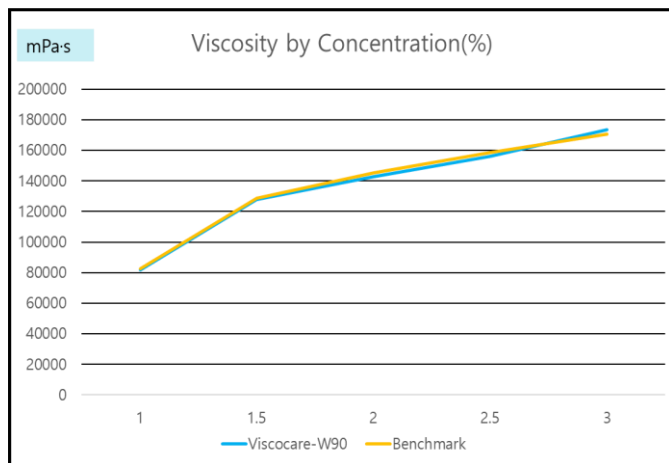
No	Inspection	Unit	Specification
1	Appearance	-	White powder
2	1.5% pH		4.0 ~ 5.5
3	1.5% Viscosity	mPa.s	90,000 ~ 150,000
4	Salt Viscosity	mPa.s	10,000 ~ 30,000
5	Solid content	%	Min 90.0
6	Odor	-	Characteristic

### Typical Characteristics

- A powdery polymer obtained by polymerizing hydroxyethyl acrylate and sodium acryloyl dimethylpropane sulfonate.
- Scope of application: Suitable for all cosmetics, especially skin care thickeners. Various use for body wash, hair care, etc.
- Improves emulsion stability of cosmetics.
- It acts as a conditioning agent for the hair and prevents static electricity to facilitate hair care.
- Self-emulsifying and emulsifying up to 40% of oil
- Cold & Hot process is possible, no need to neutralize before use.
- It is possible to increase the viscosity in the pH range of 3-11, and it has excellent thickening power even in the presence of special ingredients(DHA and AHA)
- Packaging unit: 20KG/ Carton box
- Self life: 3 years (as unopened)
- Proper storage temperature: Indoor storage below 35°C without direct sunlight
- Please refer to the COA and MSDS for more details

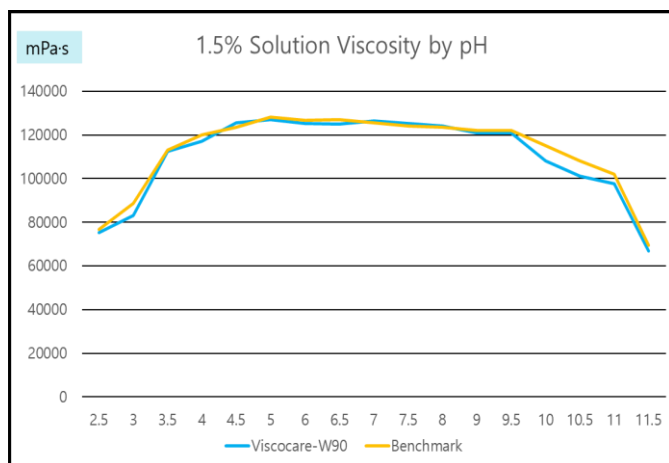
The specifications and typical characteristics are approximate figures and they are not to be construed as warranties.

## Thickening Efficiency FVC-W90 (Viscocare-W90F)



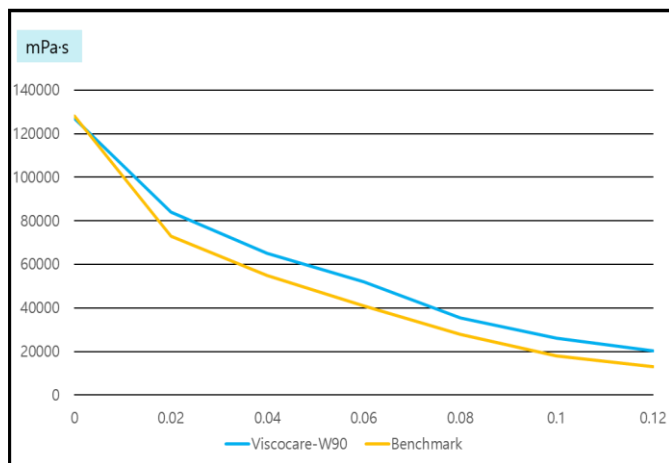
### Viscosity by Concentration

- Concentration 1.0 – 3.0 %
- RVT Viscometer
- The FVC-W90 (Viscocare-W90F) viscosity profile is very similar to the benchmark one



### For test of viscosity variation as pH

- 1.5% FVC-W90 (Viscocare-W90F) solution(in Water)
- Add Lactic acid or 10% NaOH solution
- Maintain from pH 3.0 to 11 of high viscosity



### Effect of Salt(NaCl) on the viscosity of FVC-W90 (Viscocare-W90F)

#### For testing resistance on electrolytes

- Prepare 1.5% FVC-W90 (Viscocare-W90F) solution in DI water
- Add various weight of NaCl to 1.5% FVC-W90 (Viscocare-W90F) solution.
- Mix well and measure the viscosity.

Decreasing trend of viscosity is similar to the benchmark one