

FVC-90(Viscocare-HA90F)

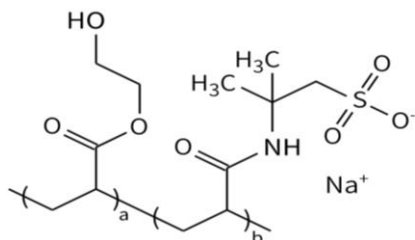
CHARACTER

- FVC-90(Viscocare-HA90F) is a powder-type polymer which can be used immediately.
- FVC-90(Viscocare-HA90F) increases viscosity over a wide range of pH and has stability.
- FVC-90(Viscocare-HA90F) is an additive which can be also used for transparent finished 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
- CAS No. : 111286-86-3
- EINECS No. : 601-067-4
- CHINA : listed in IECIC

Specification

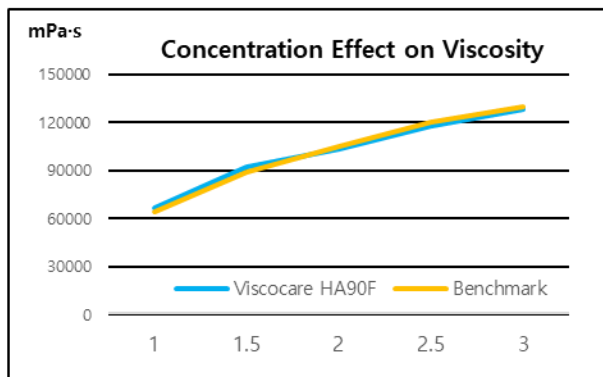
No	Inspection	Unit	Specification
1	Appearance	-	White powder
2	pH @ 1.5% solution		5.0 ~ 6.5
3	Viscosity @ 1.5% Solution	cps	70,000 ~ 100,000
4	Solid content	%	90.0 min.

Typical Characteristics

- A powdery polymer obtained by polymerizing hydroxyethyl acrylate and sodium acryloyl dimethylpropane sulfonate.
- Scope of application: Suitable for all cosmetics, especially a thickener for skin cares. 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 : 15KG/ PE drum
- Self life: 3 years since manufactured and unopened.
- Proper storage conditions.: Indoor dried to avoid direct sunlight at 35°C or lower temperature.
- Please refer to the COA and MSDS for more details

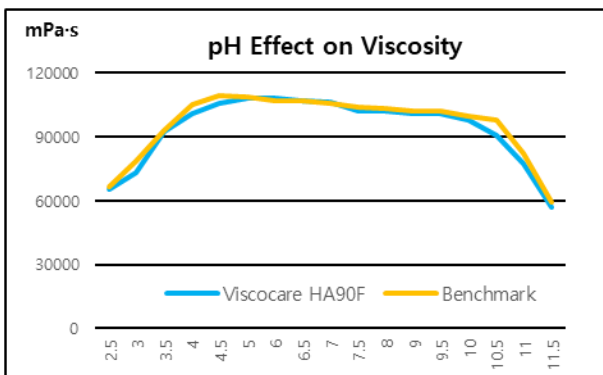
The specifications and typical characteristics are approximate figures and they are not to be construed as warranties.

Thickening Capability of FVC-90(Viscocare HA90F)



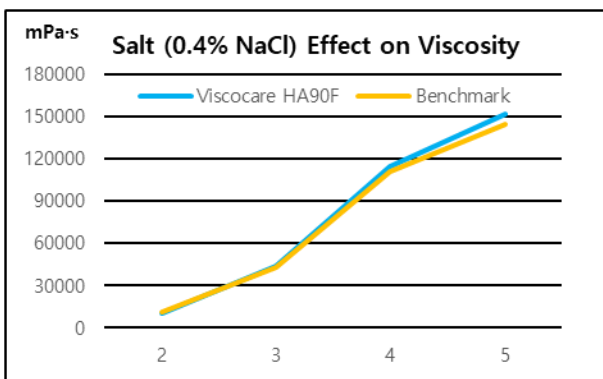
Thickening Capability Per concentration Change

- Concentration 1.0 – 3.0 %
- RVT Viscometer
- The FVC-90(Viscocare-HA90F) viscosity profile is very similar to the benchmark one



Thickening capability over a wide pH range

- 2% FVC-90(Viscocare-HA90F) solution in Water
- Add Lactic acid or 10% NaOH solution to adjust pH
- Maintain expected viscosity from pH 3 to 10.
- It shows similar profile to benchmark.



Thickening capability in presence of electrolyte

- For each sample increase FVC-90(Viscocare-HA90F) by 1% at 2% to 5%. NaCl remains at 0.4% for each sample. Mix D.I. water to fulfill 100%.
- Measure the viscosity.
- It shows expected viscosity comparing to benchmark.