

The 3 in 1 Polymer for pharmacy



- **SEPINEO™ P 600 Description**

- **SEPINEO™ P 600: Thickening power**

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- **SEPINEO™ P 600: Stabilizing power**

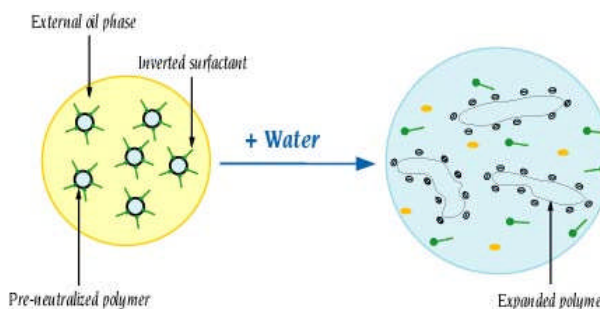
- **SEPINEO™ P 600: Formulation advices**

SEPINEO™ P 600 belongs to the SEPINEO™ new range specifically dedicated to your topical drug developments.

SEPINEO™ P 600 description

The thickening- emulsifying polymer for topical applications.

SEPINEO™ P 600, HSD polymer
“HYDRO SWELLING DROPLETS”



In presence of water, SEPINEO™ P 600 reverses and the polymer network deploys instantly, forming a perfectly stable gel in a few seconds.

SEPINEO™ P 600 benefits:

Ready to use fluid form

Very easy to handle at room temperature: No neutralisation, No rehydratation.

Thickens over a large pH range : pH 2 to 12

Stabilizes and thickens O/W emulsions

Gel-Cream texture: Emulsifies all oily phases at Room temperature

Good skin tolerance

Regulatory status: US-DMF n° 21266

Already used in a drug with NDA (New Drug Application)

SEPINEO™ P 600: thickening power

The SEPINEO™ P 600 thickens water from low concentrations. Increase of viscosity as a function of polymer concentration is linear and SEPINEO™ P 600 is effective over a very wide pH range. SEPINEO™ P 600 is able to thicken solvent-rich media such as ethanol, acetone, glycerin, glycols... Thus, it enables to formulate

SEPINEO™ P 600: Emulsifying power

SEPINEO™ P 600, an Hydro Swelling Droplet (HSD) polymer in an invert emulsion, is able to emulsify and stabilize many oily phases.

- ⇒ **WITHOUT addition of a conventional emulsifier**
- ⇒ **WITHOUT HLB calculation**
- ⇒ **WITHOUT neutralization (pre-neutralized polymers)**

Different oily phases can be emulsified successfully, whatever their nature: polar and non polar oils, vegetable oils, silicone oils, esters.

The **gel-creams** obtained are stable and have a perfectly uniform appearance. The “gel-cream” concept is a novel product form, very pleasant for the touch and spread on the skin.

SEPINEO™ P 600 : Emulsion stabilizing power

In addition to these thickening/emulsifying properties, SEPINEO™ P 600 stabilizes conventional emulsions. In such cases, the SEPINEO™ P 600 concentration can be lower, from **0.5% to 2.0%**, and must be determined according to the nature of the other ingredients of the formula.

SEPINEO™ P 600 : formulation advices

In emulsion: SEPINEO™ P 600 performs well when added at the end of high temperature emulsification ($\cong 70-75$ °C). It can also be added at the beginning of the process in the oil or aqueous phase as it is perfectly stable at high temperatures.

In gel-cream: SEPINEO™ P 600 can be introduced either in the oily phase or in the aqueous phase: its performance in terms of texture and stability is similar whatever the process. However, the stirring step needs **less energy** when SEPINEO™ P 600 is introduced in the oily phase.

In hydroglycolic/ hydroalcoholic/ acetone gel: It is advisable to prepare the aqueous gel first and then add the solvent gradually, while stirring.

SEPINEO™ P 600 doses of use

- gel application => thickening power: up to 5%
- cream application => stabilizing power: 0,5% to 2%
- Gel-Cream => emulsifying power: up to 5%

Nota

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