Hand sanitizer
Virucidal testing update

Ingredients that inspire

Virucidal testing

Seppic has confirmed through external testing ***the virucidal activity* of below hydroalcoholic gel formulas*** *according to the* ***EN 14476*** *standard.*

** virucidal against enveloped viruses (Modified vaccinia virus Ankara), virucidal with limited spectrum activity (Adenovirus Type 5, Murine norovirus), 30 seconds of contact time, clean conditions)*

Hydroalcoholic Gel EU07635P		Hydroalcoholic Gel EU07634P		Hydroalcoholic Gel EU07636P	
Aqua/Water	Up to 100%	Aqua/Water	Up to 100%	Aqua/Water	Up to 100%
Absolute Ethanol	**65.00% w/w**	**Absolute Ethanol**	**65.00% w/w**	**Absolute Ethanol**	**66.00% w/w**
Glycerin	3.00%	Glycerin	3.00%	Glycerin	3.00%
SEPINEO™ P 600	**3.20%**	**SEPINEO™ D.E.R.M**	**1.60%**	**SEPINEO™ PHD 100**	**0.80%**
Turbid Gel		*Translucent liquid*		*Transparent liquid*	
56,600 mPa.s Brookfield S4S6		*28,500 mPa.s Brookfield S4S6*		*15,600 mPa.s Brookfield S4S6*	
Virucidal tests (Eurofins)		***Virucidal tests (Eurofins)***		***Virucidal tests (Eurofins)***	
AAJ14041, AAJ13932		***AAJ12900, AAJ14020***		***AAJ14116, AAJ14022***	

Virucidal testing reports available on request

SEPINEO™ Polymers
Thickeners/ Stabilizers Texturizer

Sepineo™ polymers are

- *pre-neutralized polymers,* ***ready to use***
- *compatible with* ***with all solvents (more than 60% of ethanol)***
- ***Highly resistant to the shear,*** *with a* ***non-thixotropic*** *rheological profile*
- *with various gel* ***textures, viscosities*** *&* ***rheological behaviors***
- ***Texturizing agents*** *(non-sticky) for an optimal adherence of hydroalcoholic gel users*

Formulation tips

	SEPINEO™ P 600	SEPINEO™ D.E.R.M	SEPINEO™ PHD 100
Chemical name	*Acrylamide/Sodium Acryloyldimethyl Taurate Copolymer/Isohexadecane - Polysorbate 80*	*Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer*	*Polyacrylate Crosspolymer-6*
Regulatory	*US DMF n°21266 Type IV Inactive Ingredient Database (IID) registered*	*US DMF n°33138 Type IV*	*US DMF underway (2022)*
Process	**No neutralization**	**Immediate thickening** with simple dilution	**Room-temperature** *(hot process possible)*
Solvent compatibility	• **Ethanol 95°:** 70% w/w at 3% (~76.99% v/v)	• **Ethanol 95°:** 65% w/w at 2% (~71.49% v/v)	• **Ethanol 95°:** >95% w/w at 2.8% • Better compatibility with **Isopropanol** & solvents mix
Physical form	**Liquid ⇒ No dispersion step** ➔ **Easy** process ➔ Compatible with **all manufacturing equipment** ➔ **Easy cleaning**	Powder polymer	Powder polymer
Use level	0.5% - 5%	0.5% - 3%	0.5% - 3%
Gel aspect	Opaque to translucent gel Smooth & supple	Translucent gel Smooth & supple	**Transparent gel** Rigid & jelly effect
	Transparency can be improved through the polymer dose & a **combination of Glycerin and Simulsol 1293** *(% to be adapted depending on formulation)*		
Rheological profile	**Good skin adhesion** Medium playtime	**Good skin adhesion** Short to medium play time **Light texture**	Poor skin adhesion Long playtime Possible bouncy effect **Rich, comfort texture**
Other properties		**Sprayable**	Suspensive properties