

Chemlink Specialities



HARKE GROUP

Polymers for Alcohol Hand Gels

Alcohol hand gels can help maintain hygiene for staff, patients and the general public in institutions such as hospitals and work places. This document is a handy guide to the range of polymeric rheology modifiers that Chemlink Specialities Ltd can offer.



Clariant

Aristoflex® Polymers

Clariant's Aristoflex range features pre-neutralised AMPS polymers. They can be used to create non-tacky alcohol gels with great sensorial properties. The best way of processing the Aristoflex polymers is to slowly add them to the hydro-alcoholic solution during stirring until fully hydrated. The range is as follows:

Aristoflex® AVC

INCI: Ammonium Acryloyldimethyltaurate / VP Copolymer

Aristoflex AVC creates the thickest gels of any of the polymers in the Aristoflex range. It leaves a rich, caring skin feel. Aristoflex AVC has great spreadability, which is primarily due to the polymer's low salt tolerance. When the gel comes into contact with salt on the skin, the gel structure collapses, leaving a fresh feel.

- » Aristoflex AVC will tolerate up to 70% Ethanol
- » Inclusion Level: circa 0.5 - 1.0%

Aristoflex® HMB

INCI: Ammonium Acryloyldimethyltaurate / Beheneth-25 Methacrylate Crosspolymer

Aristoflex HMB leaves a rich skin feeling. It also has suspension properties, if a scrub formulation is required.

- » Aristoflex HMB will tolerate up to 70% Ethanol and 70% Isopropanol
- » Inclusion Level: circa 0.5 - 1.0%

Aristoflex® Velvet

INCI – Polyacrylates Crosspolymer-11

Aristoflex Velvet gives a slightly lower viscosity in alcohol hand gels than other members of the Aristoflex range. As its name suggests, Velvet leaves a luxurious feel on the skin - perfect for crystal clear hand gels.

- » Aristoflex Velvet will tolerate up to 70% Ethanol and 70% Isopropanol
- » Inclusion Level: circa 1.0 - 1.5%

Aristoflex® Silk

INCI – Sodium Polyacryloyldimethyltaurate

Aristoflex Silk offers fantastic silky smooth sensorial properties. It also has greater salt tolerance and faster hydration.

- » Aristoflex Silk will tolerate up to 70% Ethanol and 70% Isopropanol
- » Inclusion Level: circa 1.0 - 1.5%

Corel Pharma Chem

Corel Pharma Chem produce a range of high quality acrylic thickeners. They require neutralisation to pH 6.5 – 7.0 with TEA to give the best viscosity.

Acrypol® ELT-20

INCI – Acrylates/ C10-30 Alkyl Acrylate Crosspolymer

Acrypol ELT-20 is a self-wetting polymer which allows for easier dispersion. Acrypol ELT-20 gives slightly better clarity than Acrypol ELT-21.

- » Acrypol ELT-20 will tolerate up to 70% Ethanol and 70% Isopropanol
- » Inclusion Level: circa 0.2 - 0.6%

Acrypol® ELT-21

INCI – Acrylates/ C10-30 Alkyl Acrylate Crosspolymer

Acrypol ELT-21 is a self-wetting polymer which allows for easier dispersion.

- » Acrypol ELT-21 will tolerate up to 70% Ethanol and 70% Isopropanol
- » Inclusion Level: circa 0.2 - 0.4%

Acrypol® 956

INCI – Carbomer

Acrypol 956 is a high molecular weight carbomer that's used to create sparkling clear gels. It takes longer to disperse than the self-wetting grades, but gives the best clarity.

- » Acrypol 956 will tolerate up to 70% Ethanol and 70% Isopropanol
- » Inclusion Level: circa 0.2 - 0.6%

Shin-Etsu

Tylose® PSO810001

INCI – Methyl Hydroxypropyl Cellulose

Tylose PSO810001 is a renewable cellulosic polymer. It can be used to create gels in polar solvents. For best results, the Tylose PSO810001 should be sprinkled into the alcohol and dispersed, before slowly adding the water. Continue stirring until fully hydrated. It does not require neutralisation.

- » Tylose PSO810001 will tolerate up to 95 % of both Ethanol and Isopropanol
- » Inclusion Level: circa 0.5 - 1.5%

Solvay

Jaguar® HP 120 COS

INCI – Hydroxypropyl Guar

Jaguar HP 120 COS is a renewable polymer extracted from the guar bean. Disperse the HP 120 COS in the water phase. Then add a minute amount of citric acid solution to about pH 4.0. At this stage, the polymer will start to hydrate and build viscosity. Once fully incorporated, add the formula amount of alcohol. Jaguar HP 120 COS offers a rich emollient effect on the skin.

- » Jaguar HP 120 COS will tolerate up to 70% Ethanol and up to 70% Isopropanol
- » Inclusion Level: circa 1.0 - 1.5%

Rheomer® 33T

INCI – Polyacrylates-33

Rheomer 33T is an easily dispersible liquid HASE-polymer which will give viscosity upon neutralised. A pH above 6.5 will give clarity.

- » Rheomer 33T will tolerate up to 70% Ethanol and up to 70% Isopropanol
- » Inclusion Level: circa 4 - 6%

Miscellaneous Additives

Neutrotain DMG (Dimethylglucamine)

Neutrotain DMG is created from sugar. It has been developed as a safer alternative to other neutralising agents such as ammonia and TEA which aren't as renewable and carry harsh CLP labelling during storage.

Ingredients to combat dry hands due to alcohol hand gels:

- » PEG-7 Glyceryl Cocoate
- » D.L Panthenol (Panthenol)
- » Vegequat (Cocodimonium Hydroxypropyl Hydrolysed Wheat Protein)
- » Glycerol
- » Cosmosurf DDG 28

Ingredients for foaming hydro-alcoholic solutions:

- » PEG-10 Dimethicone
- » Bis-PEG-10 Dimethicone
- » Thetacare AFP-33 (PEG-10 Acrylate/ Perfluorohexylethyl Acrylate Copolymer, Perfluorohexylethyl Alcohol) – ICT
- » Thetacare AFP-50 (PEG-10 Acrylate/ Perfluorohexylethyl Acrylate Copolymer, Perfluorohexylethyl Alcohol) – ICT

Contact Us

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