



Viscolam® AT 100 P

Chemical description

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Emulsion of sodium polyacryloyldimethyl taurate

INCI name

Sodium Polyacryloyldimethyl Taurate,
Hydrogenated Polydecene, Trideceth-10

Main use

VISCOLAM® AT 100 P is a ready-to-use thickener for emulsion systems, specifically designed for the manufacture of cosmetics and personal care products.

Typical values

| | |
|---|----------------|
| Appearance at 25°C: | viscous liquid |
| Odour: | characteristic |
| pH (2% aqueous solution): | 7 approx |
| Bulk viscosity (cPs): (Brookfield RVT, 20 rpm, 25 °C) | 6000 max |
| Viscosity (cPs): (Brookfield RVT, 2% solution, 5 rpm, 25 °C) | 45000-65000 |
| Dry content: | 40 % approx |

Product properties

VISCOLAM® AT 100 P is an emulsifier and a very efficient viscosity increasing agent for O/W systems. It comes in a ready-to-use liquid, based on the "Hydro Swelling Droplets" concept. It is sold as a W/O emulsion, which inverts instantly to O/W emulsion when it is added to water, providing thickening and emulsion-stabilising effects.

VISCOLAM® AT 100 P is pre-neutralised, so that the product thickens as soon as it comes in contact with water.

VISCOLAM® AT 100 P is compatible with neutral, as well as acidic and alkaline environments (pH 3-11).

VISCOLAM® AT 100 P is unpreserved as supplied and is acrylamide free.

Applications

VISCOLAM® AT 100 P is an extremely versatile, ready-to-use polymeric thickener/stabiliser. It makes it possible to emulsify and stabilise several types of oil phases in a wide range of pH (pH 3.0 - 11), regardless of the chemical nature and polarity of the oil system used. Average use levels of around 2% (as supplied) is enough to generate thick emulsions; VISCOLAM® AT 100 P can also be used at lower levels (0.5 - 0.8%) as a co-emulsifier.

VISCOLAM® AT 100P can be used in leave-on products: creams, lotions, milks, sunscreens. It can thicken fatty phase-based products, it stabilizes high amount of fatty phases and has a very high compatibility with silicones. VISCOLAM® AT 100 P shows a good compatibility with DHA, which makes it ideal for the formulation of self-tanning products. It can also be used to stabilise and suspend inorganic UV filters, such as Titanium Dioxide, in sun care emulsions.

VISCOLAM® AT 100 P can be added at any step of the formulation process, both in hot and cold processes. To thicken rapidly it is suggested to use the "water & oil dispersion" addition: prepare a premix of water and oil phase, then add VISCOLAM® AT 100 P under stirring.

Storage and handling

VISCOLAM® AT 100 P should be stored in the originally sealed containers. In order to maintain the performance of the product, store at room temperature and protect from frost. We recommend stirring before use.

Shelf life: 18 months

Packaging

25 kg net weight plastic drums. Alternative package sizes may be available upon request.

Material safety

Product safety data and handling information can be found on the relevant Safety Data Sheet, which is available upon request. It is recommended that the Safety Data Sheets are examined before using the product.

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Regulatory information

The Technical Data Sheet is not a official declaration of compliance nor specification. Any specific information has to be released separately and nominally to each customer upon request.