

Viscolam® CK1

Crystal-clear stability

Today's consumers expect much more from body washes, facial cleansers, and shampoos than just effective cleansing. They seek visually captivating formulations with vibrant colors, transparency, suspended eye-catching particles. These products must also deliver a luxurious sensory experience.

Viscolam® CK1 is the ideal partner for meeting these high expectations. Its outstanding clarity, stabilisation capabilities and smooth flow allow the creation of products that are both visually striking and highly functional.

Summary of benefits

- **Excellent clarity:** perfect for crystal-clear formulations
- **Superior suspending properties:** it effortlessly suspends particles like scrubbing solids, opacifiers or pearling agents
- **Elegant rheology:** luxurious texture and product flow
- **Effective thickening:** it efficiently thickens surfactants and detergent systems
- **Ease of formulation:** a straightforward one-step neutralisation process eliminates the need for complex back-acid techniques.

Applications

Viscolam® CK1 is a versatile rheology modifier specifically designed for surfactant-based personal cleansing products. It is an excellent choice for formulators aiming to develop high-performance, visually appealing, and stable personal cleansing products. Its ease of use and compatibility with a wide range of surfactants and additives make it a valuable component in modern personal care formulations.

Its unique properties make it ideal for applications including:

- shampoos and hair care products
- body and face washes
- specialised cleansing products (eg. hand sanitisers and shaving creams)

INCI name: Acrylates Copolymer



Pampering shower gel

LAMCOS 152

Phase	Ingredient name	% w/w
A		
1	Aqua (Water)	To 100
2	Viscolam® CK1	5.0
3	Tetrasodium EDTA	0.05
4	Sodium Laureth Sulfate (~ 27% a.m.)	35.0
5	Glycerin	2.0
6	Sodium Hydroxyde, 20% soln.	To pH ~5
7	Cocamidopropyl Betaine (~ 30% a.m.)	5.0
B		
1	Aqua (Water)	20.0
2	Esaflor® ZERO-X Guar Hydroxypropyltrimonium Chloride	0.4
C		
1	Sterol CC/595 PEG-6 Caprylic/Capric Glycerides	1.5
2	Styrene/Acrylates Copolymer, Aqua (Water)	0.1
3	Preservatives	q.s.
4	Parfum (Fragrance)	0.5
5	Sodium Chloride	1.0
6	Glycol Distearate, Laureth-4, Cocamidopropyl Betaine	2.0
7	Citric Acid, 20% soln.	To pH ~5

General characteristics:

Appearance: thick opaque pearlescent detergent

pH: ~ 5

Viscosity (Brookfield RVT, 20rpm, 25°C): ~ 7000 mPa*s



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Shower gel with pearls

LAMCOS 120

Phase	Ingredient name	% w/w
A		
1	Aqua (Water)	To 100
2	Viscolam® CK1	8.0
3	Sodium Laureth Sulfate (~ 27% a.m.)	30.0
4	Cocamidopropyl Betaine (~ 30% a.m.)	8.0
5	Sodium Hydroxyde, 20% soln.	To pH ~6.5
B		
1	Sodium Chloride	1.0
2	Aqua (Water)	2.5
C		
1	Preservatives	q.s.
2	Parfum (Fragrance)	0.5
3	Alpicare NS PEG-40 Hydrogenated Castor Oil, Trideceth-9, Aqua (Water)	1.5
D		
1	Jojoba Esters	0.5

General characteristics:

Appearance: clear liquid with suspended pearls

pH: ~ 6.5

Viscosity (Brookfield, 20rpm, 25°C): ~ 5.000 mPa*s

Formulation tips

Viscolam® CK1 is supplied as a low viscosity liquid emulsion and is therefore very easy to handle.

Upon one-step neutralisation by alkali addition, it instantly develops its suspending and thickening properties.

Viscolam® CK1 inclusion level (generally between 5-10%, as supplied) may vary depending on the desired end result. The following order of addition is recommended, in order to achieve best of clarity, suspending and thickening properties: water, Viscolam® CK1, anionic surfactants, neutralisation to pH 6.5-7.0, remaining surfactants (i.e. amphoteric, etc.), other ingredients. The combined use of Viscolam® CK1 and salts such as sodium chloride provides an efficient and cost-effective way to obtain a nice and elegant rheology.