

# 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
<b>A</b>		
1	Aqua (Water)	To 100
2	<b>Viscolam® CK1</b>	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>B</b>		
1	Aqua (Water)	20.0
2	<b>Esaflor® ZERO-X</b> Guar Hydroxypropyltrimonium Chloride	0.4
<b>C</b>		
1	<b>Sterol CC/595</b> 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
<b>A</b>		
1	Aqua (Water)	To 100
2	<b>Viscolam® CK1</b>	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>B</b>		
1	Sodium Chloride	1.0
2	Aqua (Water)	2.5
<b>C</b>		
1	Preservatives	q.s.
2	Parfum (Fragrance)	0.5
3	<b>Alpicare NS</b> PEG-40 Hydrogenated Castor Oil, Trideceth-9, Aqua (Water)	1.5
<b>D</b>		
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.