



Viscolam® GD19

A novel partner you can count on.

For today's consumers, body and face washing as well as shampooing bring more than just cleansing: formulations need to be visually appealing with color, transparency, particles or glitters; additional skin or hair care benefits are also requested. Excellent sensorial characteristics, clarity and formula stabilization make VISCOLAM® GD19 an efficient partner for this challenging formulations. Versatile and easy to formulate, VISCOLAM® GD19 only needs a one-step neutralization process and no back-acid technique.

INCI name: Acrylates Copolymer

Summary of benefits

- Excellent clarity
- Superior suspending properties
- Elegant rheology
- Effective thickening

Applications

VISCOLAM® GD19 is ideal for formulations where high clarity is valued and generates products with a smooth flow. It was specifically developed to impart efficient suspending and stabilizing, as well as thickening properties to surfactants and detergents systems. It can suspend particles and walnut shells in scrub gels, opacifiers in milky formulations, pearling agents. VISCOLAM® GD19 can also thicken and stabilize opaque formulations, whenever a high yield point is needed.

Formulation tips

VISCOLAM® GD19 is supplied as a low viscosity liquid emulsion and is therefore very easy to handle. Upon one-step neutralization by alkali addition, VISCOLAM® GD19 instantly develops its suspending and thickening properties. VISCOLAM® GD19 inclusion level (generally between 5 - 10 %, as supplied) may vary within a wide range of concentrations, 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® GD19, anionic surfactants, neutralization to pH 6.5-7.0, remaining surfactants (i.e. amphoteric, etc.), remaining ingredients and preservatives. The combined use of VISCOLAM® GD19 and salts such as sodium chloride provides an efficient and cost-effective way to obtain a nice elegant rheology.



Cocooning shower gel – LAMCOS 153

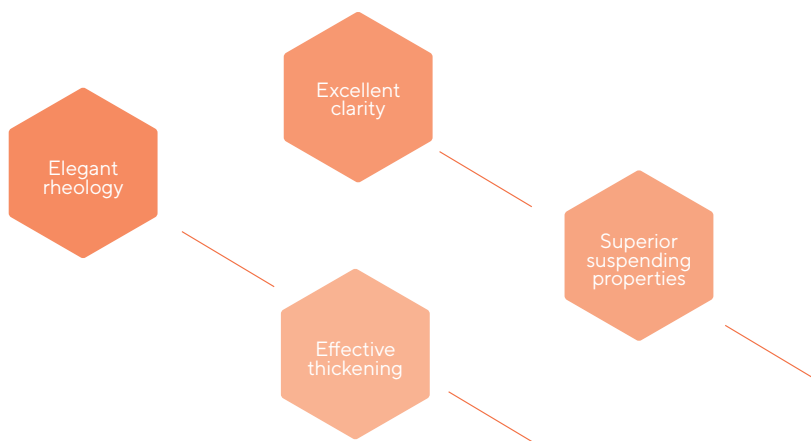
Phase	Ingredient name	% w/w
A		
1	Aqua (Water)	to 100
2	VISCOLAM® GD19	5.0
3	Tetrasodium EDTA	0.05
4	Sodium Laureth Sulfate (~ 27% a.m.)	35.0
5	Glycerin	2.0
6	NaOH (20% solution)	to~pH 5
7	Cocamidopropyl Betaine (~ 30% a.m.)	5.0
B		
1	Aqua (Water)	20.0
2	ESAFLOR® ZERO-X	0.4
C		
1	STEROL CC/595	1.5
2	Styrene/Acrylates Copolymer, Aqua	0.1
3	Sodium Benzoate	0.3
4	Parfum (Fragrance)	0.5
5	Sodium Chloride	1.0
6	Glycol Distearate, Laureth-4, Cocamidopropyl Betaine	2.0
7	Citric Acid (20% Solution)	to~pH 5

Manufacturing procedure:

In the main vessel, under stirring, add VISCOLAM® GD19 into water, followed by A3-A5. Adjust pH to ~ 5 if needed, then add A7. In a support vessel, add ESAFLOR® ZERO-X into water with vigorous stirring; keep stirring for ~ 20 min to ensure the complete hydration of the polymer. Add phase B into phase A under stirring, then add ingredients of phase C in given order, mixing well. Adjust pH to ~ 5, if necessary.

General characteristics:

Appearance: thick opaque pearlescent detergent
 pH: ~ 5
 Viscosity (Brookfield RVT, 20rpm, 25°C): ~ 7000 mPa*s



Shower gel with pearls – LAMCOS 178

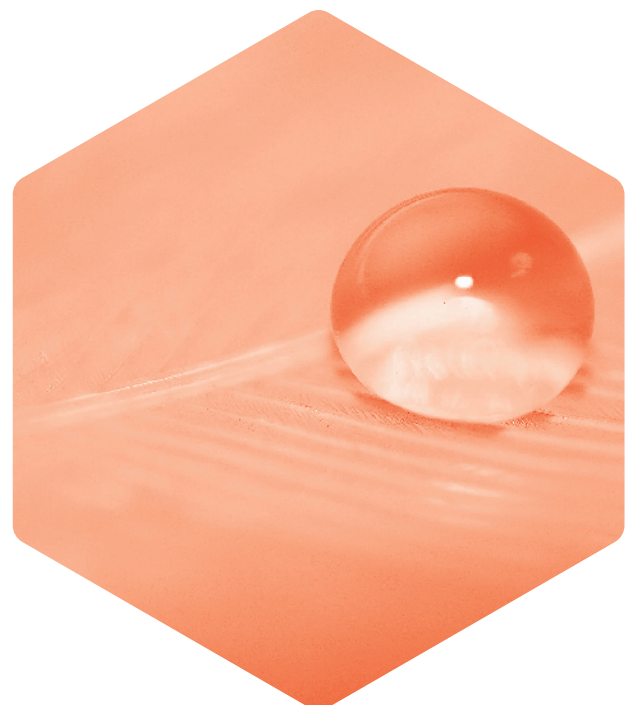
Phase	Ingredient name	% w/w
A		
1	Aqua (Water)	to 100
2	VISCOLAM® GD19	8.0
3	Sodium Laureth Sulfate (~27% a.m.)	30.0
4	Cocamidopropyl Betaine (~30% a.m.)	8.0
5	Sodium Hydroxide (10% solution)	to pH 6.5
B		
1	Sodium Chloride	1.0
2	Aqua (Water)	2.5
C		
1	Preservative	q.s.
2	Parfum (Fragrance)	0.5
3	ALPICARE NS	1.5
D		
1	Jojoba Esters	0.5

Manufacturing Procedure:

In the main vessel add ingredients of phase A in the given order under stirring and adjust pH to 6.5. Dissolve B1 in water and add phase B to the main vessel. In a support vessel, premix ingredients of phase C, until a clear homogenous mixture is obtained. Then add phase C to the main vessel. Add D1 to the main vessel stirring slowly.

Characteristics:

Appearance: clear liquid with suspended pearls
 pH: ~ 6.5
 Viscosity (Brookfield, 20rpm, 25°C): ~ 5.000 mPa*s



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