Actigum™
CS 11 QD

The performant biopolymer to thicken, suspend & stabilize challenging formulas with a premium sensory

Origin:
• INCI: Sclerotium Gum
• Biopolymer obtained through a process of aerobic fermentation of sugars with strains of Non-GMO Sclerotium rolfsii.
• Sources in the fermentation broth are of 100% vegetable origin: wheat & sugar beet.

Compatibility:

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<th>NaCl %</th>
<th>0</th>
<th>2</th>
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<tr>
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<td>+</td>
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With most preservative systems

Uniqueness:
• Highly efficient thickener
• Anti-pollution properties (in vivo study)
• Smoothing effect (ex vivo study)
• Film-forming (ex vivo study)
• Performant suspending agent (>0.3% dose)
• Emulsion stabilization aid
• Premium sensory enhancer aid
• Translucent formulas
• Sprayable properties

Technical data:
• Dose of use 0.1-1%
• Powder form
• Non ionic
• Cold/Hot processable
• Highly compatible: electrolytes, surfactants and preservatives
• An irradiated version (not Cosmos approved) is available with Total Plate Count < 100 cfu/g

Made in France
Applications

When to use Actigum™ CS 11 QD?

- In formulations to increase viscosity and improve sensoriality at the same time
- In challenging formulations which contain high electrolyte levels and/or quantity of actives
- In challenging formulations that require a broad pH stability from low pH (for instance self-tanning, anti-ageing using AHA...) to high pH
- In challenging formulations that need to suspend particles like zinc oxide, titanium dioxide, organic filters in suncare² applications
- In formulations that require to suspend particles (exfoliating or decorative beads, pigments...)

Formulation tips

- Recommended equipment for cold or hot process:
  - Silverson® L5M-A : 8 000 rpm ≈ 5 min at room temperature
  - Ultra Turrax® T25 : 12,000 rpm, 15 - 20 min at room temperature
- Equipment adapted only for hot process: VMI Turbotest® with dissolver (deflocculator) or Roto Stator: 1500 rpm, 30 min at 75°C
- Not adapted: any type of propeller, simple mixing
- The proportion of the rotor-stator and the vessel size impact the final result
- It is important to adapt the quantity of formula to the beaker
- Heating does not affect the final viscosity
- Cold process is possible and heating (75°C) will only make faster the deployment of the polymer
- Viscosity remains the same regardless the production process: batch to batch or semi continuous system from stock solution
- Batch size does not impact the viscosity during industrial scale-up
- Viscosity results in formulations predict the result in scale-up

Product details

- CAS N° 39464-87-4
- Packaging: 10 kg (net) cartons lined with PE bag
- Shelf life after production date (months): 36
- IECIC listed

Contact us at: beauty@cargill.com

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