



Actigum™ CS 11 QD

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



**DERIVED NATURAL
ACCORDING TO
ISO 16128**



**COSMOS
APPROVED**



**READILY
BIODEGRADABLE
ACCORDING TO
OECD 301 B**



HALAL



KOSHER



VEGAN SUITABLE¹



MADE IN FRANCE

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.

Uniqueness:

- Highly efficient thickener
- Anti-pollution properties (*in vivo* study)
- Smoothing effect (*ex vivo* study)
- Film-forming (*ex vivo* study)
- Performant suspending agent ($\geq 0.3\%$ 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

Compatibility:

| NaCl % | 0 | 2 |
|--------|---|---|
| | + | + |

| pH | 3 | 7 | 12 |
|----|---|---|----|
| | + | + | + |

With most preservative systems

Applications



Actigum™
CS 11 QD

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 sun care² applications
- In formulations that require to suspend particles (exfoliating or decorative beads, pigments...)

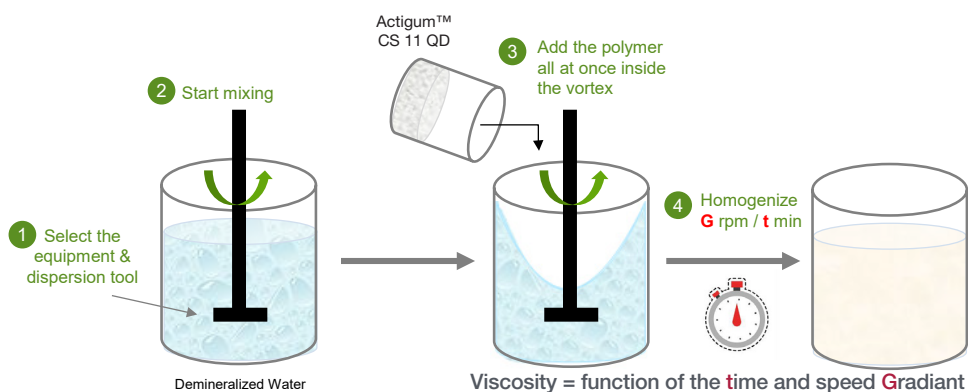
Formulation tips

- 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

Textures:

- Serum
- Gel
- Gel-cream
- Lotion
- BB cream
- Mask

Sensorial fingerprint:
super premium feeling,
shiny, smooth, slightly
fresh and light body



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

¹ The responsibility of a vegan claim lies with the cosmetic manufacturer. Please consult your own legal or regulatory experts to ensure suitability of the product with your preferred standard.

² Product made to food grade GMPs and has not been tested in sunscreen. Manufacturer is responsible for compliance with corresponding regional and global sunscreen regulations.

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