

Celova® Care Powder

Commodity Name:	Microfibrillated cellulose, cellulose microfibrils
CAS No:	9004-34-6, alternatively 65996-61-4 & 56-81-5
HS Code:	4703.2900
INCI:	Cellulose, Glycerin, Water

Celova® Microfibrillated Cellulose (MFC) is a natural, sustainable and biodegradable material that serves as an alternative to synthetic ingredients, in a wide range of applications. The powder material is produced by a purely mechanical process (patent pending) that uses cellulose pulp as a raw material.

Celova® Care Powder (COSMOS-approved) is a high-performance and sustainable microfibrillated cellulose (MFC) ingredient, tailored for modern personal care formulations. It improves performance in skin care, sun care, and color cosmetics, and is ideally suited for both oil-in-water (O/W) emulsions and dry powder formulations.

Technical Specifications			
Parameter	Range	Unit	Method
Form	powder	-	Internal method
Color	white to off white	-	Internal method
MFC content	40 – 60	%	Internal method
Residual moisture	≤ 10.0	%	Internal method
pH (6%)	4 – 9	-	Internal method
Viscosity (6%)	20 – 45	Pas	Internal method
Mesophilic aerobic bacteria	< 100*	CFU/g	ISO 21149
Yeasts and molds	< 100*	CFU/g	ISO 16212

* Due to inherent variability of the plate count method, according to USP Chapter 61 or EP Chapter 2.6.12, Interpretation of results, results are considered out of limit if > 200 CFU/g

Material contains glycerol

Storage Conditions	
Storage	Store in a dry, cool place. Once opened packaging needs to be closed tightly to protect the product from humidity.
Shelf Life	Up to 24 months from the date of production in original, sealed package.

Packaging Type	
Samples	50g bottle
Commercial	5kg cardboard box

Slight differences to the above given values may arise due to the natural origin of the products.

Handling Instructions

Celova® Microfibrillated Cellulose Powder

Celova® microfibrillated cellulose powder consists of 45% microfibrillated cellulose and approximately 45% Glycerin and is a natural, sustainable and biodegradable material. The material is produced by a purely mechanical and thermal process that uses cellulose pulp as a raw material. To preserve the naturality of Celova® products no biocides are added. That means any contamination can lead to microbial growth. To ensure the quality over time certain rules apply for handling. Inspect seals upon material reception to ensure containers have not been opened. Report issues promptly!

Contamination Risks:



Opening of original,
sealed containers



Taking samples



Container left open
after use attracts
water (hygroscopic)



Transfer of product
into smaller containers

Handling Recommendations:



Disinfect any tools
or containers with
70% Ethanol in
Water



Store at ambient
temperatures



Do not store
in direct sunlight

Dispersion Recommendations:



Use a high shear mixing equipment at shear rate $>14'000\text{s}^{-1}$. The minimum concentration of Powder in liquid $> 6\%$

The powder can be redispersed in polar liquids using high shear equipment. The high shear forces are needed to unfold the cellulose fibrils into a homogenous gel. The fibrils will not be shortened or affected by the high shear forces. To achieve a homogenous and high viscous suspension its recommended to use a minimum of 6% powder to liquid ratio. Measuring the viscosity of the gel gives an indication of the level of dispersion. Undispersed powder particles can be detected with a microscope.

If you have further enquiries please do not hesitate to contact the Weidmann Fiber Technology Team under:
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