



## Akucell<sup>®</sup> and Cekol<sup>®</sup> AFI CMC (Carboxymethyl Cellulose) for aquafeed

### Introduction

Carboxymethylcellulose (CMC) is an anionic, water soluble, cellulose derivative with carboxymethyl groups. It works as a strong pellet binder to produce pellets with a superior durability and hardness at low inclusion levels.

Achieve improved water stability, moisture and distribution of ingredients.

### CMC products

- Akucell AF 0305
- Akucell AF 2785
- Akucell AF 3265
- Akucell AF 3275
- Cekol AFI 5000S
- Cekol AFI 30000S
- Cekol AFI 35000SB

### Features

Pellet binder for aquafeed

- Improves pellets integrity, durability and stability
- Reduces nutrient leaching and prevent fragmentation and abrasion of pellets during handling
- Highest water stability, recommended also for shrimp feed
- Effective at low inclusion levels

Starch replacement in fish feed (salmon)

- Allows partial substitution of starch in the formula, releasing space for other nutrients critical for the nutritional value

### Benefits

- Helps minimize production costs by reducing fines and dust (lower reprocessing costs)
- Nutritionally inert and does not react with nutrients in feed
- Supports easy handling and storing of feeds
- Offers flexibility of including high dust low cost feed ingredients to reduce feed formulation costs
- No effect on the smell and taste

### Inclusion level

As pellet binder:

CMC is recommended at the rate of 0.5-1 kg per ton of feed depending on formulation and processing conditions.

As starch replacer:

5 or 6 parts of starch can be replaced by 1 part of CMC. It can be used for this application up to 1%.

### Application

CMC is recommended to be added directly into the mixer. For best results, ensure accurate addition and thorough mixing of the product.



## Packaging and transport

Packing multiply paper bags with an inner polyethylene bag. The shelf life is 3 years from date of production provided when the material is stored in the original bags under dry and cool conditions. The viscosity of cellulose gum may decrease slightly in time.

## Safety and handling

Material safety data sheet (MSDS) available on request.

## Certifications

Regulatory status product complies with current regulations of WHO/FAO, FCC and EC. Our Akucell and Cekol brands are GMP+ assured.



## Additional information

Our production facility is certified for the following quality standards: FSSC 22000, ISO 9001/14001, OSHAS 18001, Kosher, Halal.

Contact us directly for detailed product information and sample request  
website | [bredol.com](http://bredol.com)  
email | [bredol@nouryon.com](mailto:bredol@nouryon.com)

# Nouryon

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