



# 石家庄科昊化工有限公司

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## Technical Data Sheet

Item No.: CMC

### Product Overview

Carboxymethyl Cellulose (CMC) is a water-soluble cellulose derivative developed for cement- and gypsum-based construction materials. It functions mainly as a thickener, water-retention agent, binder and rheology modifier. CMC helps improve consistency, workability, cohesion and formulation stability in dry-mix building materials.

### Application performance

| Desc                    | Lever of improvement |
|-------------------------|----------------------|
| Water retention         | high                 |
| Thickening property     | middle to high       |
| Workability             | good                 |
| Cohesion                | good                 |
| Anti-sagging resistance | good                 |

### Recommended Applications

The products are used in: wall putty and skim coat, gypsum plaster and gypsum products, dry-mix mortar, masonry mortar, cement-based plaster/render and other construction formulations requiring thickening, water retention and rheology control.

CMC helps control viscosity and water loss, improves spreading and handling, enhances cohesion and supports a more uniform and stable construction mixture.

### operating guide

1. Mix well with other dry components in the dry-mix formulation.
2. Dosage should be calculated according to the total weight of the formula; the specific addition level should be determined by laboratory and application testing.
3. At the construction site, the material should be mixed uniformly with the specified amount of water before use.

### Typical Data

| Desc                        | Range                                  |
|-----------------------------|----------------------------------------|
| Appearance                  | White to off-white powder              |
| Viscosity, mPa.s            | 300-10,000 (1% aqueous solution, 25 C) |
| Degree of substitution (DS) | 0.70-1.20                              |
| Purity, %                   | ≥90.0                                  |
| pH                          | 6.5-8.5 (1% aqueous solution)          |
| Moisture content, %         | ≤10.0                                  |
| Particle size               | ≥95% passing 80 mesh                   |

\* The data listed above are typical only and should not be taken as an indication of the quality of the product

### Packing/Storage&Transportation/Shelf Life

Standard Packing

25kg/Bag or 20kg/Bag

Prevent high temperature and pressure, especially high humidity. Keep the package sealed and dry.

### Shelf Life

Keep in dry and cool conditions for at least 12 months. If the product is stored beyond its shelf life, tests should be carried out to determine quality before use.

### product safety

For product handling and safety information, see the Product Safety Data Sheet.

For further information, see the Product Safety Data Sheet.

The above information and recommendations are based on our current experience and are for reference only. It does not exclude the responsibility of users to conduct their own tests to determine suitability for the intended application.