

Carboxymethyl Cellulose; CMC; CT Series

Ceramic Grade

Ceramic Grade CMC (Carboxymethyl Cellulose) finds broad application in ceramics, primarily for enhancing clay properties, maintaining moisture levels, and ensuring uniformity in glaze and slip formulations. Compatible with various ceramic manufacturing methods, it finds use in pottery, tableware, tiles, and sanitaryware production. Its versatility makes it a valuable tool for improving the efficiency and quality of ceramic production processes.

Specification

Appearance	White to cream powder
pH value	6.0 – 11.0
Moisture, %	Max. 10

Grade

Grade	D.S	Viscosity ^a (mPa.s)
CT4A2T	Min. 1.3	50 – 100 (1%) ²
CT3A5F	Min. 0.95	500 - 700 (1%) ²
CT3A6F	Min. 0.95	800 - 1200 (1%) ²

^a Brookfield viscosity @ 25°C

² 1% aqueous solution, Spindle number 3, 30rpm

Packaging & Storage

Standard Packing	50 lb bag, 40 bags per pallet 25 kg bag, 40 bags per pallet
Storage	Each unit is labeled with product name and lot number. Store in a cool, dry area for optimal shelf life.
Handling	For safe handling of this product, please refer to the Safety Data Sheet (SDS).

Shelf Life

Shelf Life	2 years
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Usage & Application

Typical Dosage	0.1 to 1%
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Applications

- Binder and Plasticizer: binds ceramic particles, enhancing the plasticity and workability of clay during forming and shaping.
- Water Retention: helps to prevent excessive drying of ceramic clay to reduce cracking or uneven shrinkage.
- Suspending Agent: prevents settling of solid particles and pigments in ceramic slurries, ensuring the glaze remains homogeneous and easy to apply.
- Greenware Strength Enhancer: improves green strength, reducing the risk of cracks and deformities during drying and handling.
- Flow Control: regulates flow characteristics of ceramic suspensions, making them easier to handle and shape.
- Glaze Adhesion: helps the glaze adhere uniformly to the clay body, preventing crawling or uneven coverage.
- Filtration: helps to remove impurities and fine particles from ceramic slips and glazes, contributing to product quality by eliminating contaminants.

Regulatory Information

CAS No.	9004-32-4
HS Code	3912.31
Country of Origin	Made in China

Date Updated: Sep 22, 2022

Disclaimer: The information provided in this document is based on tests that we believe to be reliable. However, the results of these tests may vary under different conditions and methodologies. It is the responsibility of the prospective user to determine the suitability of our products for their specific use. The user is responsible for ensuring that their use of our products, as well as their workplace practices, are in compliance with all applicable laws and regulations.

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