

## Toothpaste Grade CMC

### Introduction

Carboxymethyl cellulose (CMC) is a kind of anionic polymer and cellulose derivative with carboxymethyl groups bound to some of the hydroxyl groups of the glucopyranose monomers that make up the cellulose backbone. It is often used as its sodium salt, sodium carboxymethyl cellulose.

### Application

- Improve sense, taste and texture of toothpaste.
- Endow toothpaste molding mobility and cohesion effect. Prevent separation of abrasive.
- High light transmittance after dissolving of CMC. Have better rheological and thixotropic properties.
- During storage of toothpaste, no water separation, no decorticate, no thickness reversion, extend shelf life.

### Function

- Thickening
- Binding
- Stabilizing
- Emulsifying
- Dispersing
- Deflocculating
- Water retention

### Package

25kg per multi -layer kraft paper bag with PE inner bag. Package can be customized as required. Once open it, please use up ASAP.

### Storage & Shelf Life

Store in a cool, dry, and ventilated place within a well-sealed container. Shelf life is 24 months. However, as a result of natural degradation process the viscosity of CMC may decrease in time. Therefore, after 12 months from date of manufacturing, the product can still be used safely up to the indicated expiry date, but may need a slight dosage correction in order to give optimum performance in the application.

**Main Specification****(Complies with GB1886.232-2016, QB/T 2318-2012)**

Model	TL9	TM9A	TH3000
Description	White to off-white free flow powder, hygroscopic after drying		
1% Brookfield viscosity(mPa.s)	100-200		3000-4000
2% Brookfield viscosity (mPa.s)		1500-3000	
Degree of substitution (D.S)	0.75-0.9	>0.90	0.75-0.9
PH Value	6.5-8.5		
Purity (%)	≥99.5		
Loss on drying (%)	≤7.0		
Fe (mg/kg)	≤50		
As (mg/kg)	≤2.0		
Pb (mg/kg)	≤2.0		
Total plate count (cfu/g)	≤500		
Mould & Yeasts (cfu/g)	≤100		
E. coli (cfu/g)	Absent		
Pseudomonas aeruginosa (cfu/g)	Absent		
Staphylococcus aureus (cfu/g)	Absent		

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Note: Products with different viscosities, degrees of substitution, and particle sizes can be customized according to the specific requirements of customers.