شركة مصنع البتال للصناعات الكيميائية
AL BATTAL FACTORY FOR CHEMICAL INDUSTRIES COMPANY

PRODUCT INFORMATION

Carboxymethyl Cellulose Low Viscosity (CMC LV 70%)

Technical Data Sheet

CAS No: 9004- 32-4

Grade: Technical Grade CMC LV 70%

Molecular Formula: $[C_6H_7O_2(OH)_2OCH_2COONa]_n$

Product Description

CMC LV is a Low viscosity Carboxymethyl Cellulose, water-soluble polymer derived from naturally occurring cellulose. It is commonly used in detergent industry as well as other industries. CMC can be used in liquid and paste detergents as a stabilizing and thickening agent.

Applications

Soap: Adding an appropriate amount of CMC for soap making can significantly raises the quality of the soaps. It enables soap to be flexible and pliable therefore making it easier for pressing and processing.
Cleaning paste: CMC acts as thickening agent and stabilizing agent in the cleaning paste to effectively prevent layering of components, while enabling the cleaning paste to be smooth, heat resistant and scent.
Anti-redeposition agents: carboxymethyl cellulose is Anti-redeposition agents in detergent additives used to keep clothes from redepositing or returning to the laundry during the wash. Anti-redeposition agents are water-soluble and generally negatively charged.
Greying Inhibitors: Carboxymethyl Cellulose used as Surface Modifiers and Greying Inhibitors in Washing of Cotton Fabrics
Washing powder: CMC as a foam stabilizing additive can not only shorten the washing time but also make the fabric soft after washing, thus reducing irritation of the skin.
Dishwashing liquid: The addition of CMC makes the product transparent with high viscosity.
Others: As a vital additive in daily chemical and personal care products, CMC is widely found in shampoo, body lotion, hand sanitizer, shoe polish, toilet cleaner, etc.

Specifications

Standard	CMC LV 70%
Test Method	API 13A & ASTM
Appearance	Free-flowing white to creamish powder
Solubility in water	Completely soluble
Starch presence	Absent
Moisture Content (max. %)	10%
Brookfield Viscosity at 25°C (1% soln.)	Max. 50 cps
Brookfield Viscosity at 25°C (2% soln.)	50-300 cps
pH (1% soln. in deionized water)	8 – 12
Active Matter (Purity, min. %)	≥ 70%
Degree of Substitution (min.)	0.5-0.8
Bulk Density (kg/m^3, min.)	≥500
Temperature Stability (°C)	≥150°C
Specific Gravity (g/cm^3 at 20°C)	1.5 - 1.6

Usage and Dosage

Recommended dosage: 0.1% to 0.5% (calculated on a dry basis), or as per customer formulation procedures.

Packing and Storage

CMC LV is packaged in 25 kg or 50 lb. kraft paper bags, or as per customer requirements. Store in a dry, well-ventilated area with containers tightly closed. Keep away from heat, sparks, open flames, and incompatible materials. Follow standard warehouse practices for palletizing, banding, shrink-wrapping, and stacking.

Recommended Handling

All personnel handling this material must treat it as an industrial chemical, wearing appropriate protective equipment and observing the precautions described in the Safety Data Sheet (SDS).

Al Battal Factory for Chemical Industries Company, P.O. Box 2479, 2nd Industrial City, Dammam-34334, Kingdom of Saudi Arabia. Tel. +966 13 8128882 Fax: +966 13 8128880, Web site: www.albattalchem.com
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