



Carboxymethyl Cellulose (CMC -E70)

Technical Data Sheet

CAS No.- 9004- 32-4

Grade- CMC-E70 (Carboxymethyl Cellulose Low Viscosity)

Molecular formula- $[C_6H_7O_2(OH_2)OCH_2COONa]_n$

Product Description

CMC-E70 is a water-soluble, low-viscosity polymer derived from naturally occurring cellulose. It is biodegradable, non-toxic, and widely utilized in the mining industry, particularly as a depressant in froth flotation processes. Its excellent rheological properties enhance mineral separation efficiency by selectively controlling the flotation behavior of gangue minerals.

Applications & Key Features

CMC-E70 is widely used in mining as a depressant to inhibit the flotation of unwanted minerals like talc, mica, and clays. It also acts as a rheology modifier, stabilizer for fine particles, and binder in pelletizing, improving process efficiency and product quality. Additionally, it serves as a water retention aid and dust suppressant, supporting safer and more stable mining operations.

Specifications

Standard	CMC-E70
Appearance	Free-flowing white to creamish powder
Solubility in Water	Completely soluble
Starch Presence	Absent
Moisture Content (max %)	10%
Brookfield Viscosity (1% soln, 25°C)	Max. 25 cps
Brookfield Viscosity (2% soln, 25°C)	Max. 100 cps
pH (1% solution in deionized water)	8 - 12
Active Matter (Purity, min. %)	≥70%
Degree of Substitution (min.)	≥0.5
Bulk Density (kg/m ³ , min.)	≥500
Temperature Stability (°C)	≥150
Specific Gravity (g/cm ³ at 20°C)	1.5 - 1.6

Packing and Storage

CMC-E70 is packaged in 20 kg or 50 lb. kraft paper bags, or as per customer requirements. Store in a dry, well-ventilated area. Keep the container tightly closed and protected from heat, sparks, open flames, and incompatible materials. Follow standard warehousing practices, including proper palletizing, banding, shrink-wrapping, and stacking, to maintain product integrity and ensure safe storage.

Recommended Handling

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

The above information is best to our knowledge and provided for manufacturing purposes. Al Battal Factory for Chemical Industries Company makes no warranty or guarantee concerning the handling, use or application of such product whether alone or in combination with other products in case unexpected events occur. Users are advised to make their own tests to determine the suitability and performance of the product.

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