

## CMC HV MINING 70 Technical Data Sheet

**CAS No.-** 9004- 32-4

**Grade-** CMC HV MINING 70

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

### Product Description

Carboxymethyl Cellulose (CMC) HV Technical Grade is a high-viscosity, water-soluble, anionic polymer derived from natural cellulose. Biodegradable, non-toxic, and environmentally safe, CMC HV is specifically engineered to meet the rigorous demands of industrial applications in the mining sector. It delivers superior performance in controlling slurry rheology, improving mineral separation efficiency, and enhancing water retention and stability in various mineral processing operations.

### Applications & Key Features

CMC HV MINING 70 is a mining-grade Carboxymethyl Cellulose used in froth flotation as a depressant to enhance the selective separation of minerals. It also functions as a rheology modifier, binder, and water retention agent. Its high viscosity ensures effective slurry control, while its biodegradable, non-toxic nature makes it a reliable and eco-friendly choice for various mineral processing applications.

### Specifications

|  |                                       |
|--|---------------------------------------|
| Standard                                     | CMC HV MINING 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 (1% soln, 25°C)         | Max. 150 cps                          |
| Brookfield Viscosity (2% soln, 25°C)         | Min. 750 cps                          |
| pH (1% solution in deionized water)          | 8 – 12                                |
| Active Matter (Purity, min. %)               | ≥70%                                  |
| Degree of Substitution (min.)                | ≥0.7                                  |
| Bulk Density (kg/m <sup>3</sup> , min.)      | ≥500                                  |
| Temperature Stability (°C)                   | ≥150                                  |
| Specific Gravity (g/cm <sup>3</sup> at 20°C) | 1.5 - 1.6                             |

### Packing and Storage

CMC HV MINING 70 is packaged in 20 kg kraft paper bags or 500–700 kg jumbo bags as per customer requirements. Store in a dry, well-ventilated area. Keep the container tightly closed and away from heat, sparks, and open flames. Avoid storing near incompatible substances. Follow standard warehouse safety practices including palletizing, banding, shrink-wrapping, and stacking.

### 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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