



## CARBOTAL MN 50 Technical Data Sheet

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

**Grade-** CARBOTAL MN 50

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

### Product Description

CARBOTAL MN 50 is a high-purity, high-viscosity, water-soluble Carboxymethyl Cellulose (CMC) specifically formulated for copper and gold mining applications. It functions effectively as a binder, thickener, and flotation agent. Chemically engineered to withstand demanding metal extraction conditions, Carbotal MN50 is optimized to enhance mineral recovery while maintaining slurry stability throughout the process.

### Applications

Carbotal MN50 improves the flotation process by selectively separating valuable minerals such as copper and gold from gangue. It stabilizes ore slurries, enhances water retention in heap leaching, and helps control dust during material handling. These benefits lead to higher recovery rates, reduced chemical usage, and increased overall efficiency in mining operations.

### Specifications

Standard	CARBOTAL MN 50
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)	Min. 1000 cps
Brookfield Viscosity (2% soln, 25°C)	Min. 8000 cps
Apparent Viscosity (1% soln. min.)	50 cps
pH (1% solution in deionized water)	6.5 – 8.5
Active Matter (Purity, min. %)	≥97%
Degree of substitution (min.)	≥0.7
NaCl content, max. %	2%
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

CARBOTAL MN 50 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.