



CARBOTAL MN90

Technical Data Sheet

CAS No.- 9004- 32-4

Grade- CARBOTAL MN90

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

Product Description

CARBOTAL MN90 is a water-soluble, low-viscosity Carboxymethyl Cellulose (CMC) polymer derived from naturally occurring cellulose. It is a biodegradable and non-toxic polymer engineered for use in the mining industry, particularly in froth flotation processes. Its excellent rheological properties make it a reliable aid in enhancing flotation efficiency and mineral separation

Applications & Key Features:

CARBOTAL MN90 is used as a depressant in froth flotation to enhance the selective separation of minerals. Its low viscosity and high purity ensure easy handling and effective dispersion in flotation circuits. Environmentally friendly and safe to use, it delivers consistent and reliable performance across a wide range of processing conditions.

Specifications

Standard	CARBOTAL MN90
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 (2% soln, 25°C)	150 – 400 cps
pH (1% solution in deionized water)	7.0-10.0
Active Matter (Purity, min. %)	≥90%
NaCl content, max. %	5%
Degree of Substitution	0.75-0.95
Bulk Density (kg/m ³ , min.)	≥500
Temperature Stability (°C)	≥150
Specific Gravity (g/cm ³ at 20°C)	1.5 - 1.6
Particle size - Passing 20 US mesh	100%
Particle size - Passing 40 US mesh	≥30%
Particle size - Passing 60 US mesh	≥20%
Particle size - Passing 100 US mesh	≤10%
Particle size - Passing 200 US mesh	≤5%

Packing and Storage

CARBOTAL MN90 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 away from heat, sparks, and flames. Avoid contact with incompatible materials. Follow standard safe warehousing 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.