



CARBOTAL MNLV Technical Data Sheet

CAS No.- 9004- 32-4

Grade- CARBOTAL MNLV (Sodium Carboxymethyl Cellulose -Mining Grade Low Viscosity)

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

Product Description

CARBOTAL MNLV is a mining-grade, low-viscosity Sodium Carboxymethyl Cellulose designed for use in gold and mineral processing operations. It provides effective dispersion and selective depression of unwanted gangue minerals while offering excellent solubility and ease of handling in flotation circuits.

Applications

CARBOTAL MNLV is primarily used in gold flotation processes to suppress talc, clay, mica, and carbonaceous materials. It is also applied for slurry conditioning and rheology control in mineral processing plants, particularly where hard or recycled process water is used.

Key Performance Benefits

CARBOTAL MNLV offers rapid dissolution, uniform dispersion, and consistent performance at low dosage levels. Its low-viscosity profile enables easy preparation and dosing, while stable behavior in hard water conditions supports improved flotation selectivity and gold recovery.

Specifications

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|--|---------------------------------------|
| Standard | CARBOTAL MNLV |
| Test Method | 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) | 20 – 100 cps |
| Brookfield Viscosity (2% soln, 25°C) | 100 – 300 cps |
| pH (1% solution in deionized water) | 6.5 – 8.5 |
| Active Matter (Purity, min. %) | ≥97% |
| Degree of substitution (min.) | 0.70 - 1.0 |
| NaCl content, max. % | ≤ 3.0 % |
| 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

CARBOTAL MNLV is packaged in 25 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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