



CARBOTAL AD96

Technical Data Sheet

CAS No: 9004- 32-4

Grade: Carboxymethyl Cellulose (CARBOTAL AD96)

Molecular Formula: $[C_6H_7O_2(OH)_2OCH_2COONa]_n$

Product Description

CARBOTAL AD96 is a high-purity, low-viscosity Carboxymethyl Cellulose (CMC) developed for use in the paper industry. It is suitable for wet-end addition, surface sizing, and coating applications, providing consistent performance and excellent solubility.

Applications

CARBOTAL AD96 is used in paper and paperboard manufacturing to improve fiber bonding, surface strength, coating uniformity, and printability. It is also effective as a carrier for Optical Brightening Agents (OBA).

Advantages

CARBOTAL AD96 provides improved paper strength, better surface properties, and enhanced coating performance. Its high purity ensures clean paper production, improved brightness response, and stable machine runnability.

Specifications

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| Standard | CARBOTAL AD96 |
| 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 at 25°C (1% soln.) | 20 – 100 cps |
| Brookfield Viscosity at 25°C (2% soln.) | 150 – 300 cps |
| pH (1% soln. in deionized water) | 6.5 – 8.5 |
| Active Matter (Purity, min. %) | ≥ 95% |
| Degree of Substitution (min.) | ≥ 0.7 |
| NaCl content, (max. %) | ≤ 3.0 % |
| Bulk Density (kg/m ³ , min.) | ≥500 |
| Temperature Stability (°C) | ≥150°C |
| Specific Gravity (g/cm ³ at 20°C) | 1.5 - 1.6 |

Usage and Dosage

Recommended dosage is 0.1% to 0.4% calculated on a dry pulp basis, or as per customer process and formulation requirements.

Packing and Storage

CARBOTAL AD96 is packaged in 25 kg or 50 lb. kraft paper bags, or as per customer requirements. Store in a dry, well-ventilated area with containers tightly closed. Keep away from heat, sparks, open flames, and incompatible materials. Follow standard warehouse practices for palletizing, banding, shrink-wrapping, and stacking.

Recommended Handling

All personnel handling this material must treat it as an industrial chemical, wearing appropriate protective equipment and observing the precautions 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.