



CARBOTAL AD1500

Technical Data Sheet

CAS No: 9004-32-4

Grade: Sodium Carboxymethyl Cellulose (CARBOTAL AD1500)

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

Product Description

CARBOTAL AD1500 is a high-purity, high-viscosity Sodium Carboxymethyl Cellulose (CMC) developed for kraft, packaging, sack, and corrugated paper applications requiring enhanced strength performance. It is formulated to provide strong film formation and fiber bonding characteristics.

Applications

CARBOTAL AD1500 is used in kraft and packaging paper chemicals to improve tensile strength, burst resistance, and internal bonding. It supports improved fiber interaction and sheet integrity. The grade is suitable for demanding packaging and industrial paper grades.

Advantages

CARBOTAL AD1500 provides strong film formation and effective fiber bonding due to its high-viscosity profile. It improves mechanical strength while maintaining stable processing performance. It delivers dependable strength enhancement in heavy-duty paper applications.

Specifications

Standard	CARBOTAL AD1500
Test Method	ASTM
Appearance	Free-flowing white to creamish powder
Solubility in water	Completely soluble
Starch presence	Absent
Moisture Content (max. %)	10%
Brookfield Viscosity (4% solution, 25°C)	500 – 1600 cps
pH (1% soln. in deionized water)	6.5 – 8.5
Active Matter (Purity, min. %)	≥ 98 %
Degree of Substitution (min.)	≥ 0.7
NaCl content, (max. %)	≤ 2.0 %
Bulk Density (kg/m ³ , min.)	≥ 500 kg/m ³
Temperature Stability (°C)	≥ 150 °C
Specific Gravity (g/cm ³ at 20°C)	1.5 - 1.6

Usage and Dosage

Recommended dosage is 0.2% to 0.6% calculated on a dry pulp basis, or as per customer process and formulation requirements.

Packing and Storage

CARBOTAL AD1500 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.