

CARBOTAL WL1500 Technical Data Sheet

CAS No.- 9004- 32-4

Grade- CARBOTAL WL1500

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

Product Description

CARBOTAL WL1500 is a high-viscosity Carboxymethyl Cellulose (CMC) designed for water well drilling applications. It provides effective viscosity build-up, excellent hole cleaning, reliable fluid loss control, and improved borehole stability. Its compatibility with bentonite-based drilling fluids ensures consistent performance in demanding drilling conditions.

Applications & Functions in Drilling

CARBOTAL WL1500 is used in water-based drilling fluids for water well drilling operations, including rotary and direct circulation methods. It increases drilling fluid viscosity, improves hole cleaning efficiency, reduces fluid loss, stabilizes borehole walls, and enhances filter cake quality, ensuring smooth and stable drilling performance.

Advantages and Key Benefits

CARBOTAL WL1500 delivers consistent high-viscosity performance, improves rheological properties, and provides effective fluid control. Its easy hydration, compatibility with bentonite systems, and stable performance contribute to cost-effective and reliable water well drilling operations.

Specifications

Standard	CARBOTAL WL1500
Test Method	API 13A & ASTM
Appearance	Free-flowing white to creamish powder
Solubility in water	Completely soluble
Starch presence	Absent
Moisture content, max. %	$\leq 10 \%$
Brookfield Viscosity (1% soln., 25°C)	≥ 100 cps
Brookfield Viscosity (2% soln., 25°C)	$\geq 800 - 1500$ cps
Apparent Viscosity (1% soln.)	≥ 30 cps
pH (1% soln. in deionized water)	6.5 – 8.5
Active Matter (Purity), min. %	$\geq 95 \%$
Degree of substitution (min.)	>0.7
API Filtrate Volume (max. ml)	23
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 WL1500 is packaged in 25 kg or 50 lb. kraft paper bag or as per customer requirement. Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or 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.

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