



CARBOTAL DGE40S

Technical Data Sheet

CAS No: 9004- 32-4

Grade: Carboxymethyl Cellulose (CARBOTAL DGE40S)

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

Product Description

CARBOTAL DGE40S is a technical-grade, water-soluble Carboxymethyl Cellulose polymer suitable for detergent formulations. It provides good cleaning performance with excellent compatibility and density properties suited for a variety of detergent systems.

Applications

CARBOTAL DGE40S is Used in powder detergent formulations for household and industrial laundry where cost-effective cleaning solutions are needed. It helps prevent soil redeposition and maintains fabric cleanliness, offering versatility in detergent ingredient compatibility.

Advantages

CARBOTAL DGE40S Prevents dirt and heavy metal redeposition effectively, enhances fabric penetration for cleaning, supports reduced washing time, softens fabrics, and helps minimize skin irritation risk.

Specifications

Standard	CARBOTAL DGE40S
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.)	Max. 10 cps
Brookfield Viscosity at 25°C (2% soln.)	Max. 20 cps
pH (1% soln. in deionized water)	7 - 11
Active Matter (Purity, min. %)	≥ 60%
Degree of Substitution (min.)	≥ 0.2
NaCl content, (max. %)	40%
Bulk Density (kg/m ³ , min.)	≥1000
Temperature Stability (°C)	≥130°C
Specific Gravity (g/cm ³ at 20°C)	1.5 - 1.6

Usage and Dosage

Recommended dosage: 0.1% to 0.5% (calculated on a dry basis), or as per customer formulation procedures.

Packing and Storage

CARBOTAL DGE40S 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.