



CARBOTAL DGE 50100

Technical Data Sheet

CAS No.- 9004- 32-4

Grade- Carboxymethyl Cellulose (**CARBOTAL DGE 50100**)

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

Product Description

Carbotal DGE 50100 is a technical-grade Carboxymethyl Cellulose (CMC) developed specifically for the powder detergent industry. This water-soluble polymer, derived from natural cellulose, offers excellent anti-redeposition properties and improved cleaning efficiency. Its high purity and consistent performance make it an essential additive for both household and industrial laundry formulations.

Applications

Carbotal DGE 50100 is widely used in powder detergent systems that demand high wash performance, effective soil suspension, and fabric care. Its compatibility with a broad range of detergent components ensures formulation flexibility and stability.

Advantages

Carbotal DGE 50100 enhances cleaning by preventing soil redeposition and improving fabric penetration. It supports shorter wash cycles, contributes to fabric softness, minimizes skin irritation, and integrates seamlessly into modern detergent formulations.

Specifications

Standard	CARBOTAL DGE 50100
Test Method	API 13A & ASTM
Appearance	Free-flowing white to creamish powder
Solubility in water	Completely soluble
Starch presence	Absent
Moisture content, max. %	10
Apparent Viscosity (1% soln., 25°C)	Max. 10 cps
Brookfield Viscosity 25°C, (1% soln. max.)	Max. 10 cps
Brookfield Viscosity (2% soln., 25°C)	Max. 20 cps
pH (1% soln. in deionized water)	7 – 11
Active Matter (Purity), min. %	≥80
Degree of substitution (min.)	0.3
Bulk Density (kg/m ³ min.)	≥800

Usage and Dosage

From 0.1% to 0.5% calculated on dry basis or according to customer procedure.

Packing and Storage

Carbotal DGE 50100 is packaged in 25 kg or 50 lb. kraft paper bags or as per customer requirement. Store in a dry, well-ventilated area. Keep containers closed. Keep away from heat, sparks, and flames. Store away from incompatible materials. 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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