



CARBOTAL DGE 40100

Technical Data Sheet

CAS No: 9004- 32-4

Grade: Carboxymethyl Cellulose (CARBOTAL DGE 40100)

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

Product Description

CARBOTAL DGE 40100 is a premium, water-soluble Carboxymethyl Cellulose polymer designed for the detergent industry. It penetrates fabric fibers deeply, offering superior anti-redeposition performance and significantly enhancing cleaning efficiency and overall wash quality.

Applications

CARBOTAL DGE 40100 is used in premium powder detergent formulations for both household and industrial laundry. It prevents soil redeposition, enhances cleaning efficiency, and ensures fabrics remain bright and fresh after washing.

Advantages

CARBOTAL DGE 40100 offers superior fabric penetration for deeper cleaning, reduces washing time, softens fabrics, minimizes the risk of skin irritation, and delivers consistent fabric care with long-lasting wash quality.

Specifications

Standard	CARBOTAL DGE 40100
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 (2% soln, 25°C)	5 – 40 cps
pH (1% soln in deionized water)	7 – 11
Active Matter (Purity, min. %)	≥72%
Degree of Substitution	0.5 – 0.7
Bulk Density (kg/m ³ , min.)	≥1000
Particle Size – Passing 16 US mesh (1180 μm)	≤2%
Particle Size – Passing 30 US mesh (600 μm)	≤12%
Particle Size – Passing 200 US mesh (75 μm)	≥35%
Mesh Size	80 – 120 mesh

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 DGE 40100 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.