



CELLOSIZE EP 09 hydroxyethyl cellulose

Product Description

CELLOSIZE™ EP 09 is a very low molecular weight hydroxyethyl cellulose. The product is treated with a low amount of surface treatment to ensure good dispersion in water as well as fast dissolution. Due to its surface treatment it has, however, good dispersion properties in ambient, neutral water systems. After its dispersion in water the dissolution further speed-up by either raising the pH or by increasing the temperature. Like all cellulosic ethers, CELLOSIZE EP 09 is subject to enzymatic degradation. It is therefore important that hydroxyethyl cellulose stock solutions are protected, as early as possible in the production process, by adding a proper broad-spectrum biocide.

Special Features

CELLOSIZE EP 09 is a product, which was custom designed for use as a protective colloid in the emulsion polymerization process. Solutions of this product show a high clarity and the absence of gels reduces the risk of the possible formation of grits in the polymerization process. The substitution pattern of CELLOSIZE EP 09 is especially designed to promote its grafting on the emulsion polymer particles thereby enhancing emulsion stability and improving the latex rheology.

Other Applications

CELLOSIZE EP 09 is primarily intended for use in emulsion polymerization although other applications are

- suspension polymerization (polystyrene)
- glass fibre sizing
- protective films
- construction like self leveling compounds
- oil well cementing

Typical Properties¹

Characteristic	Range	Method
Particle size (through #20 mesh)	98%, minimum	1B-44C-0.6
Solution pH at 25°C (2% aqueous solution)	6.0-7.0	1B-44C-0.4
Viscosity (5% aqueous solution, #1 spindle @ 30rpm, Brookfield LVF, 25°C)	90 to 160 cPs	1B-44C-0.1
Volatiles	6 wt %, maximum	1B-44C-0.3
Water insolubles	0.07 wt %, maximum	1B-44C-0.2

¹ The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications.

For more information, complete literature, and product samples, you can reach a Dow representative at the following numbers:

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