CELLOSIZE™ QP 100MH-V Hydroxyethyl Cellulose

Description

CELLOSIZE QP-100MH-V is a very high molecular weight hydroxyethyl cellulose. The product is surface treated to avoid gel or lump formation when dissolved in aqueous systems.

How to use the Product

Although the product is surface treated to improve its dispersion in aqueous systems it is not recommended to add it as dry powder to highly alkaline systems. It is recommended to add the product under agitation to aqueous systems at a pH of 7 to effect good dispersion.

After the CELLOSIZE HEC is well dispersed, the hydration rate may be accelerated by adjusting the pH to alkaline ranges and/or by increasing the temperature. Below pH 7 the hydration rate is decreased. Above pH 7 the hydration rate is increased. The agitation should be maintained until complete dissolution of the polymer.

Like all cellulosic ethers, CELLOSIZE QP-100MH-V 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 QP-100MH-V is a very efficient thickener whereby a given aqueous vicosity can be reached with a low level of product and therefore the total formulation cost can be reduced.

As a thickener in emulsion paints, this product can be used at a 5% lower usage level compared to our CELLOSIZE QP-100MH grade. It also reduces the sagging tendency, avoids layering on storage and can improve scrub resistance.

Other Applications

Next to paint, CELLOSIZE QP-100MH-V is a product which combines high thickening efficiency and pseudoplastic rheology and can therefore also be used in the following applications:
- liquid cleaners
- cosmetics
- glass fiber industry
- toothpaste
- latex based plasters

Typical Properties

These properties are typical but do not constitute specifications.

Characteristic	Range
Vicosity of a 1% aqueous solution, Brookfield LVT, spindle 4, 30 rpm, 25C	>5500 mPa.s (dry basis)
Water insolubles	1.5% by weight, maximum
Volatiles as packaged	6% by weight, maximum
pH of a 2% aqueous solution, 25C	6.0 to 7.0
Particle size	98% by weight, minimum, passes through a 20 mesh sieve (840 µ)
Hydration time for a 2% solution in pH 7.2 buffer	5 to 15 minutes

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