

## EAZECEL™ CMP 70M CELLULOSE ETHER

EAZECEL™ CM methylcellulose derivatives are cellulose ethers that, when dissolved in water, offer a variety of functional properties. EAZECEL™ products are powders, they are used as thickeners, protective colloids, stabilizers, suspending aids and water-retention agents in many industrial applications.

### Types and Specifications

Chemically EAZECEL™ products are ethers of cellulose and methylchloride, ethylene oxide or propylene oxide. These cellulose derivatives have been designated as follows:

EAZECEL™ CM	methylcellulose
EAZECEL™ CMH	methylhydroxyethylcellulose
EAZECEL™ CMP	methylhydroxypropylcellulose

### Degree of Substitution

	OCH <sub>3</sub>	POOH	EOOH
EAZECEL™ CMP	23-28%	4-12%	

These designations are followed by a viscosity number, as listed below. "R"-types have retarded solubility.

### Viscosity Specification

Product type	Viscosity at 2%
CMP 70M	>60,000

- Brookfield DV2 at 20 C, mP
- Aqueous viscosity specification at 20 rpm, on bone-dry basis

### Other Specifications of EAZECEL CMP 70M

- Appearance White to creamy
- "R" type Surface treatment for retarded dissolution
- Bulk density 200 - 500 g/L
- Moisture content 8.0% max.

EAZECEL™ CM is easily soluble in cold water. The product is not soluble in hot water. EAZECEL™ CM is a non-ionic cellulose ether and is compatible with many surfactants and polymers such as starch, guar and alginates. Solutions of EAZECEL™ CM are pseudoplastic, some solutions show thixotropy. The solution viscosity is a function of temperature, as the latter increases, viscosity decreases. When reaching the gel temperature gelling and flocculation of the polymer will occur. This process is reversible upon cooling. Viscosity is nearly independent of the pH over a wide range.

EAZECEL™ CM cellulose ethers have many functional properties, such as water retention, thickening and stabilizing action, binding ability, adhesion, protective colloid, suspension effect and emulsion stabilization and film formation. Typical applications are construction industry, coating industry, suspension polymerization, ceramic industry, tobacco industry, detergents and cleaners.

### Packaging and Storage

EAZECEL™ CM is packed in multiply paper bags with an inner polyethylene bag. Net weight 25 Kg or 20Kg for various markets. recommend emptying the bags from the bottom. The empty bags can be recycled or burned. In unopened bags, EAZECEL™ CM can be stored for several years. In opened bags, the moisture content of EAZECEL™ CM will be influenced by the air humidity. At the temperatures above 250°C, charring of EAZECEL™ CM will occur. At high temperatures and in contact with an open flame, EAZECEL™ CM will burn slowly with the characteristic of cellulose.

### Product Safety

Please read and understand the Safety Data Sheet (SDS) before using this product.