



A product that can do it all

METHOCEL™ CELLULOSE ETHERS

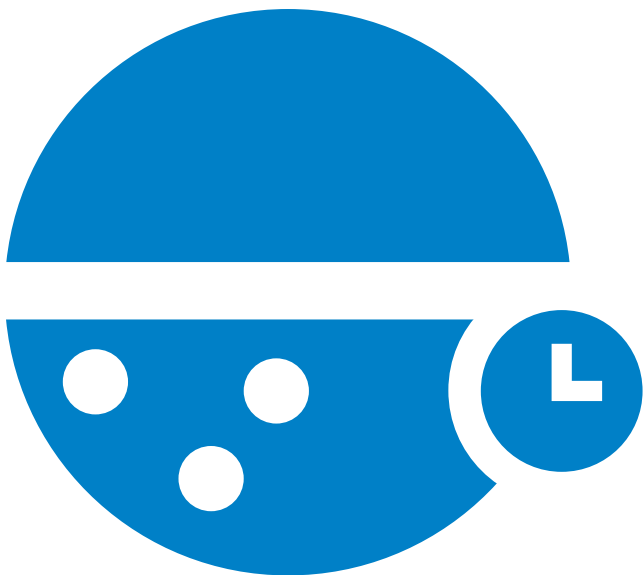


Where science
& creativity meet

THE POSSIBILITIES ARE ENDLESS

Pharmaceutical companies are continuously looking for ways to innovate – through new technologies such as controlled release systems and oral films, or through faster and more efficient manufacturing processes. Did you know that just one product can help do all of this?

METHOCEL™ Premium family of products offers exceptional flexibility and a broad range of properties typically not found in other water-soluble polymers. In many applications, two, three or even more ingredients may be needed to do the same job performed by one METHOCEL™ product. That means one ingredient can do the job of many, saving money and time.



Typical Properties

- Water-soluble
- Film forming
- Viscosifying
- Non-caloric
- Organo-soluble
- Mucoadhesive
- Hydrophilic
- Low taste and odor
- Gel forming
- High swelling
- Drug solubilizer

EFFICIENCY AND VERSATILITY WE CAN GIVE YOU THE BEST OF BOTH WORLDS

METHOCEL™ cellulose ethers offer a perfect combination of versatile properties and flexibility in formulations. The broad range of METHOCEL™ products available is one reason why they've been used successfully for more than 50 years in so many different applications. There are two polymer types – methylcellulose and hydroxypropyl methylcellulose – and each is available in several different viscosities. With so many options, it is easy to obtain the desired performance.

Controlled Release

With their varying molecular weights and chemical substitutions, METHOCEL™ excipients have the breadth necessary to achieve desired drug release profiles.

- METHOCEL™ Premium Controlled Release (CR) cellulose ethers are specially designed to tightly control the polymer attributes which contribute to drug release rates thereby providing unparalleled consistency and robustness.

Direct Compression

METHOCEL™ DC2 grades have optimized particle morphology to improve powder flow properties and enable simple blend and compress operations.

- Saves time and money by eliminating the wet granulation process, which can save as much as 60% of manufacturing costs, reduce overall waste, and shorten development time
- Greater reproducibility in tablet properties, such as weight uniformity, hardness and content uniformity
- Dramatically improved flow properties
- Excellent processability in dry powder techniques, such as direct compression and roller compaction, thus eliminating the need for wet granulation
- Better formulation option for heat- and moisture-sensitive APIs

Wet Granulation

With their extreme versatility, METHOCEL™ premium LV products can be used as granulation binders in aqueous, hydroalcoholic or non-aqueous solvent systems.

- Reduces the required compression force, an important factor in reducing wear and extending the life of tooling and compression equipment
- Readily produce foams which can be used to reduce overall moisture exposure and form more reproducible granules with less time and energy

Tablet Coating

METHOCEL™ Premium LV products offer formulators a micro-thin glossy coating that is printable, hypo-allergenic, non-tacky, and compatible with pigments and dyes. METHOCEL™ VLV Premium based tablet coatings are also designed to be easily swallowed and minimize overall cycle coating time.

Liquid Solutions and Suspensions

The wide variety of viscosity grades of METHOCEL™ Premium helps formulators achieve a broad spectrum of solution viscosities with little risk of drug-polymer interactions expected. METHOCEL™ Premium can be used as a thickening agent to help prevent or minimize suspension settling without altering taste or mouth feel.



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