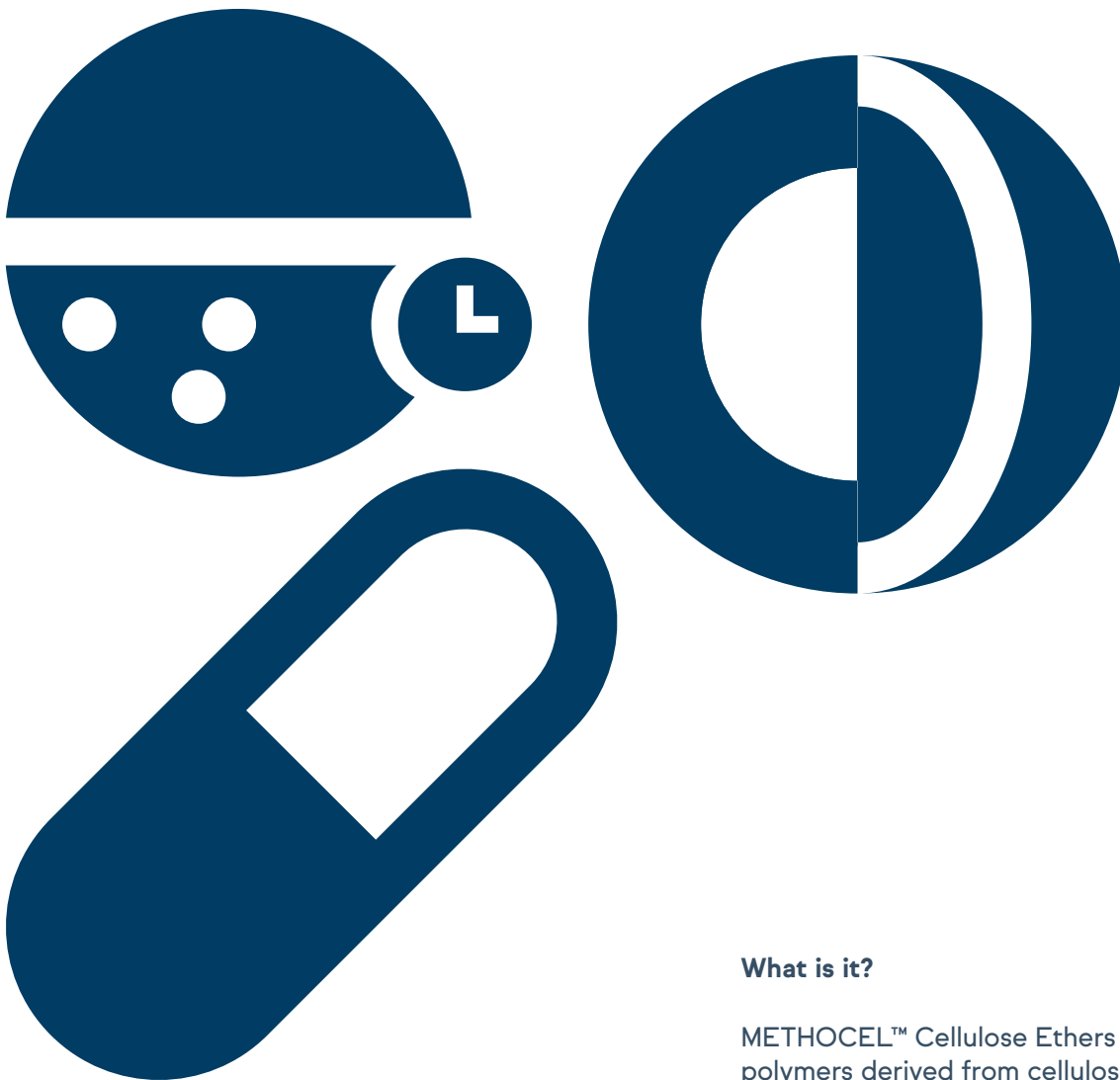


Pharma Solutions

METHOCEL™

Cellulose Ethers – Products that can do it all



What is it?

METHOCEL™ Cellulose Ethers are water-soluble polymers derived from cellulose. The METHOCEL™ product range encompasses methylcellulose and hydroxypropyl methylcellulose (hypromellose) – each available in different grades. They enable formulators to create reliable tablet coatings, granulation, controlled release matrix formulations and controlled viscosity in liquid formulations.

Product Recommendations*

| Application | Grades | Benefits |
|---|---|--|
| Tablet Coating | METHOCEL™ LV Premium METHOCEL™ VLV Premium | Glossy coating that is printable, hypo-allergenic, non-tacky and compatible with pigments and dyes |
| Hard-Shell Capsules | METHOCEL™ LV Premium | HPMC-based capsules are vegetarian (non-animal-derived) and provide good mechanical properties that enable a high-quality, robust end capsule product. |
| Wet Granulation | METHOCEL™ LV Premium METHOCEL™ VLV Premium | Binding and adhesive properties during granulation step of the manufacturing process for immediate-release tablets |
| Controlled Release Matrix Tablets | METHOCEL™ Premium METHOCEL™ Premium CR | Deliver consistent drug-release performance |
| Controlled Release Matrix Tablets, Direct Compression | METHOCEL™ Premium DC2 | Improved flow properties, faster processing speed, consistent drug release profile |

* Examples only and not representative of a complete list of recommended products or benefits

Key Benefits

- Water- and organic-soluble: Soluble in binary organic and organic solvent/water systems
- Film-forming: Form clear, tough, flexible films that are excellent barriers to oils and greases
- Viscosifying: Thicken both aqueous and non-aqueous systems
- Metabolic inertness: Do not add calories to the diet
- Thermal gelation: Gel when heated, providing controllable quick-set properties
- Low taste and odor: Excellent (low) flavor and aroma properties
- Mucoadhesive
- Hydrophilic
- Drug solubilizer

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