

## SidleyCel™ Hydroxypropyl methyl cellulose Application Guide for PVC Industry

### Product Description :

CAS No : 9004-65-3

In the polymerization process of PVC suspension polymerization system, Hydroxypropyl methyl cellulose (HPMC for short) and several different alcoholysis degrees of polyvinyl alcohol (PVA for short) compose the dispersion system. The monomer is dispersed into small particles. The use of Hydroxypropyl methyl cellulose as a dispersant can improve suspension dispersion properties, can also improve the particle morphology, and enhance the absorption performance on plasticizers.

In the production of synthetic resins, such as polyvinyl chloride (PVC), polyvinylidene chloride, and other copolymers, suspension polymerization is the most commonly used and must be invariant hydrophobic monomers suspended in water. As a water-soluble polymers, Hydroxypropyl methyl cellulose product has excellent surface activity and functions as protective colloidal agents. Hydroxypropyl methyl cellulose can effectively prevent polymeric particles from producing and agglomeration. Furthermore, although Hydroxypropyl methyl cellulose is a water soluble polymer, it can be slightly soluble in hydrophobic monomers and can increase the monomer porosity for the production of polymeric particles.

### Recommendation Brand: 60HM50, 65HM50, 75HM100

Specification	SidleyCel™ Hydroxypropyl Methylcellulose		
	60HM50	65HM50	75HM100
Methoxy(WT%)	28.0-30.0	27.0-30.0	19.0-24.0
Hydroxypropyl(WT%)	7.0-12.0	4.0-7.5	4.0-12.0
Gelling temperature (°C)	58.0-64.0	62.0-68.0	70.0-90.0
Viscosity(CPS)	40.0-60.0	40.0-60.0	80.0-120.0
Loss on drying (WT%)	≤5.0		
Residue on ignition (WT%)	≤1.5		
PH	4.0-8.0		

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