**Introduction**

**What is MEILOSE?**

MEILOSE is a trademark of Huiguang’s product. It is divided into three types - Methyl Cellulose (MC), Hydroxypropyl Methyl Cellulose (HPMC) and Hydroxyethyl Methyl Cellulose (HEMC) products, which are water-soluble cellulose ethers. These ethers are formed by substituting some of the cellulose hydroxy groups with methoxyl, hydroxyl propoxyl or hydroxyethoxyl groups.

**MEILOSE has applications in building materials, paints (coatings), personal care and pharmaceuticals.**

**Chemical Structure of MEILOSE**

- **MC**: \( R = -\text{CH}_3 \)
- **HPMC**: \( R = -\text{CH}_2\text{CHOHCH}_3 \)
- **HEMC**: \( R = -\text{CH}_2\text{CH}_2\text{OH} \)
- **R**: \( = \text{CH}_3 \)

**Plant Building**

2003 5 Formal registration
2005 12 Established main plant
2006 6 Established R&D center
2007 1 ISO9001 registered
2010 8 REACH registered
2011 4 Revamping (debottle neck), doubled the capacity
2011 10 Start the production of MEILOTEX

**Who we are**

Shanghai Huiguang Fine Chemical Industry Co., Ltd offers a broad spectrum of cellulose products and solutions, for construction and other applications. Huiguang utilizes advanced equipment and operates large scale flexible cellulose ether production line. It adopts first class gas and solid phase integral equipment reaction technology and uses DCS automatic production and control system.


**Unlimited innovation**

We constantly strive to develop competitive new products through quick information collection and continuous research and development.

**Eco-friendly product**

Huiguang will do its best to develop eco-friendly products to create a future with health, comfort and harmony.

**General Property of MEILOSE**

**General Properties**

- **Water Retention**
  - MEILOSE has the property to reduce water-loss in formulations where water can be absorbed by a contacted surface.

- **Water Solubility**
  - MEILOSE easily dissolves in cold water.

- **Organic Solubility**
  - MEILOSE is soluble in some binary organic and organic-water solvent systems, due to hydrophobic groups in its molecule.

- **pH Stability**
  - MEILOSE is stable in the range of pH 3.0-11.0, however, the solubility of MEILOSE is affected by acid or alkali.

- **Non-ionic Charge**
  - MEILOSE is compatible with other additives in aqueous solution and provides a stable combination of water solubility.

- **Thickening & Binding**
  - MEILOSE provides thickening in solution, and improves adhesion performance in formulations.

- **Suspension Aids**
  - MEILOSE enhances stability of suspension throughout solution.

- **Thermal Gelation and Surface Activity**
  - MEILOSE has surfactant properties in solution where protective colloid function, and emulsification are required.

- **Lubrication**
  - MEILOSE improves workability and processing of cement based products, and ceramic extrusions due to its lubricant property.

- **Film Formation**
  - MEILOSE forms clear, tough, flexible films which have an excellent barrier property to oils and greases.

- **Enzyme Resistance**
  - MEILOSE provides excellent viscosity stability during long-term storage, due to resistance against fungi and bacteria attack.

- **Emulsification**
  - MEILOSE stabilizes emulsions in solution.

**Particle size of MEILOSE**

MEILOSE is supplied in the following forms:

- **G**: Granular (30-60 mesh)
- **P**: Powder (80 mesh)
- **PF**: Powder, fine (100 mesh)
- **PP**: Powder, very fine (120 mesh)

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There are many modified grades and test products that satisfy diverse requirements. Test method: 2% neutral aqueous solution, 20 °C, Brookfield RV Viscometer 20 rpm.

- S (delayed solubility): Easy dispersion in cold water.

**Modified MEILOSE**

Modified MEILOSE grades are especially produced by chemical reaction or physical blending of organic or inorganic additives. Their viscosity range is various from under 3,000 cps to over 50,000 cps.

MEILOTEX

MEILOTEX grades are combined products for special application. Small bags are available on request.
How to prepare Solution of MEILOSE

SURFACE TREATED AND NON-SURFACE TREATED MEILOSE

Non-surface treated powder:
If the non-surface treated powder is immersed directly into cold water it easily forms lump.

To prevent lumping, put the powder into water (over 90 °C) first, stir to disperse and then cool down the solution with stirring.

When non-surface treated powder is used in a dry-mixing application, lumping is not of concern because each particle of MEILOSE is distributed throughout the final product.

Surface treated powder:
Surface treated powder is specially developed to prevent lumping during wet blending applications such as paints and emulsion. To make the solution with surface treated powder, place the powder directly into cold water. With time the viscosity becomes fully-developed with continuous stirring.

Each modified MEILOSE shows different solubility properties. The solubility of modified MEILOSE depends on the original property of the basic MEILOSE and its degree of modification.
Non-surface treated MEILOSE

The viscosity measuring of non-surface treated MEILOSE is not possible by direct addition in cold water because of lump formation.

Surface treated MEILOSE: Retardation time of surface treated MEILOSE is about 20 minutes at pH7. However, the higher the pH of the solution, the shorter the retardation time becomes.

Dissolution of MEILOSE

The general dissolution mechanism of MEILOSE is shown in the following graph. Because of its high solubility, non-surface treated grades have shorter dissolution time.

Viscosity comparison by various measurements

- Viscosity is a resistance force (flow rate, gravity force, rotation resistance, etc)
- In General, Ubbelhode, Hoppler (Falling Ball) type measures Newtonian solution.

<table>
<thead>
<tr>
<th>Viscosity of MEILOSE</th>
<th>Brookfield</th>
<th>Roto</th>
<th>Hoppler</th>
<th>Ubbelhode</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,000</td>
<td>4,000</td>
<td>5,000-6,500</td>
<td>3,000-4,000</td>
<td>4,500-5,500</td>
</tr>
<tr>
<td>15,000</td>
<td>15,000</td>
<td>18,000-24,000</td>
<td>15,000-20,000</td>
<td>18,000-20,000</td>
</tr>
<tr>
<td>30,000</td>
<td>30,000</td>
<td>33,000-44,000</td>
<td>50,000-60,000</td>
<td>70,000-80,000</td>
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<tr>
<td>40,000</td>
<td>40,000</td>
<td>44,000-54,000</td>
<td>80,000-100,000</td>
<td>80,000-100,000</td>
</tr>
<tr>
<td>50,000</td>
<td>50,000</td>
<td>55,000-80,000</td>
<td>over 120,000</td>
<td>–</td>
</tr>
</tbody>
</table>

Relationship between viscosity and concentration

- In general, the viscosity is proportional to the concentration.
- Concentration limit of MEILOSE solution is limited to about 2.5% for higher viscosity grades (over 15,000 cps)
The viscosity of MEILOSE solution is dependent on the temperature. As the solution temperature increases, the viscosity initially decreases until a gel is formed. A further temperature increase causes flocculation. These processes are reversible.

MEILOSE is soluble in water as well as in some organic solvents, and water-organic co-solvents. PMK type has low solubility in various organic solvents. PMF and PME type are normally used in paint remover applications. PME, PMF and PMJ are soluble in Methanol/(some organic solvents, IPA, Methylene chloride, etc.)/water mixtures.

Water retention is a key property only imparted by MEILOSE in cement based render formulations. Water retention of MEILOSE improves with an increase in viscosity, and concentration of the cellulose ether used in the cement based render formulation.

Generally water retention of cellulose ethers is dependant on temperature. An increase in temperature results in a decrease of water retention capacity.

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The following MEILOSE grades recommended by this selection guide may depend on the customer's working conditions. There are many other MEILOSE grades that are suitable for typical and other special applications.

Huiguang do not simply supply products, but also supply technology and reliability.

### Solution Properties of MEILOSE

#### Cement based

<table>
<thead>
<tr>
<th>Construction</th>
<th>Application</th>
<th>Recommended Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tile Cement</td>
<td>Normal Tile Cement</td>
<td>GMC-111, GMC-3312, PMK-50Z(S)</td>
</tr>
<tr>
<td></td>
<td>Standard Tile Cement (C1)</td>
<td>GMC-1112, GMC-1114, GMC-1146</td>
</tr>
<tr>
<td></td>
<td>High Performance Tile Cement (G2)</td>
<td>GMC-1157, GMC-1213, GMC-3110</td>
</tr>
<tr>
<td>Render/Plaster</td>
<td>Cement Plaster</td>
<td>GMC-1112, GMC-1156, GMC-5111, GMC-5121, KMC-2020</td>
</tr>
<tr>
<td></td>
<td>Single Layer Coat</td>
<td>GMC-1141, KMC-2020, KMC-2050</td>
</tr>
<tr>
<td></td>
<td>Skin Coat</td>
<td>GMC-3111, PMK-40Z(S), PMK-50Z(S), KMC-2010, KMC-2020</td>
</tr>
<tr>
<td></td>
<td>Monocapa</td>
<td>GMC-1160, GMC-5111, PMK-1520</td>
</tr>
<tr>
<td>Tile Grouts</td>
<td>GMC-3110, GMC-1211, GMC-1210, PMK-907S</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Self Leveling Compounds</td>
<td>GMC-4010, GMC-4520, GMC-4530, PMK-40YS, LK-303S</td>
</tr>
<tr>
<td></td>
<td>Underwater Concrete</td>
<td>GMC-8110, GMC-8190B, PMK-60Z, PMK-902S, PMK-9025</td>
</tr>
<tr>
<td></td>
<td>Water Proofing Mortar</td>
<td>PMK-5005, PMK-6025, PMK-7025</td>
</tr>
<tr>
<td></td>
<td>Fire Proofing Mortar</td>
<td>PMK-40025</td>
</tr>
<tr>
<td></td>
<td>Masonry Mortar</td>
<td>GMC-6110, GMC-6111, GMC-6112, GMC-6133, GMC-1232</td>
</tr>
<tr>
<td></td>
<td>ETICS/EPS Adhesive</td>
<td>PMK-60025, PMK-7025, GMC-3101</td>
</tr>
<tr>
<td></td>
<td>Plaster</td>
<td>PMK-40025, PMK-5025</td>
</tr>
</tbody>
</table>

#### Gypsum based

<table>
<thead>
<tr>
<th>Construction</th>
<th>Application</th>
<th>Recommended Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster</td>
<td>Gypsum Machine</td>
<td>GMC-5220, GMC-5222</td>
</tr>
<tr>
<td></td>
<td>Gypsum Hand</td>
<td>GMC-5213, GMC-5214, GMC-5223, GMC-5225</td>
</tr>
<tr>
<td></td>
<td>Gypsum Finishing</td>
<td>GMC-5210, GMC-5215, GMC-5224</td>
</tr>
<tr>
<td></td>
<td>Gypsum Adhesive</td>
<td>GMC-5223, PMK-807</td>
</tr>
<tr>
<td>Latex based</td>
<td>Heavy weight</td>
<td>GMC-4110, GMC-4112, PMK-40YS</td>
</tr>
<tr>
<td></td>
<td>Light weight</td>
<td>PMK-3525, LK-10025, LK-3525</td>
</tr>
<tr>
<td></td>
<td>Tile Adhesive</td>
<td>GMC-8110, GMC-4110, GMC-5025, PMJ-3525</td>
</tr>
<tr>
<td></td>
<td>Plaster/Plucky</td>
<td>GMC-1211</td>
</tr>
</tbody>
</table>

#### Latex based (ready-to-use)

<table>
<thead>
<tr>
<th>Construction</th>
<th>Application</th>
<th>Recommended Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Suspension Polymerization (PVC)</td>
<td>PMK-508, GMC-5020</td>
</tr>
<tr>
<td></td>
<td>Printing Ink</td>
<td>PMK-505, PMK-40Y, PMK-40Y</td>
</tr>
<tr>
<td></td>
<td>Nickel Cadmium Battery</td>
<td>PMK-40Y, PMK-40Y</td>
</tr>
<tr>
<td></td>
<td>Fried Food/Bread, Cake</td>
<td>PMK-40Y</td>
</tr>
<tr>
<td></td>
<td>Colour Pencil</td>
<td>PMK-40Z, PMK-30Z</td>
</tr>
<tr>
<td></td>
<td>Agrichemical, Fertilizer</td>
<td>PMK-50W, PMK-10X</td>
</tr>
</tbody>
</table>

### Paint

#### Application

<table>
<thead>
<tr>
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<th>Application</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Paint</td>
<td>GMC-8110B, GMC-8110BS, GMC-8190B, PMJ-35ZC</td>
</tr>
<tr>
<td></td>
<td>Paint Remover</td>
<td>PMK-40Y, PMJ-35ZCN, PMK-30Z</td>
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<tr>
<td></td>
<td>Personal Care</td>
<td>Water Soap &amp; Paste Soap</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shampoo</td>
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<tr>
<td></td>
<td></td>
<td>Emulsion Conditioner</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Styling Gel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Face Wash</td>
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<tr>
<td></td>
<td></td>
<td>Shave Gel or Cream</td>
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<tr>
<td></td>
<td></td>
<td>Sun Care</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cream and Lotion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bubble Bath</td>
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### Others

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MEILOSE is widely used wherever thickening, gelling, emulsifying, suspending, absorbing, stabilizing, bonding, film-forming, water retention and good workability are required. We believe that the quality decision of cellulose ethers is made by customers, not by maker.

**Handling**

The Solutions of MEILOSE are very slippery. To avoid any accidents, sweep the spilled powder and keep dry.

**Health**

The toxicological properties of this material have not been investigated. Use appropriate procedures to avoid direct contact with skin or eyes and prevent inhalation.
- **Eyes:** immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
- **Skin:** flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
- **Ingestion:** Do not induce vomiting. Rinse mouth and then drink 2-4 cups of water before seeking medical advice.
- **Inhalation:** Remove from exposure and place in fresh air immediately.

**Packaging & Storage**

MEILOSE is available in the following packaging.
- **A.** 20 kg or 25 kg: net multi-layer paper bag with polyethylene inner liner. 1,000 kg or 1,100 kg is placed on one pallet and 10 MT - 12 MT is loaded in one container of 20 feet.
- **B.** 350 kg - 600 kg: net Jumbo bag which is specially coated and polyethylene inner liner. 1,000 kg - 1,200 kg is placed on one pallet and 10 MT - 12 MT is loaded in one container of 20 feet.

MEILOSE should be stored under dry and clean conditions in its original packaging due to its hygroscopic property. If not, MEILOSE can absorb moisture relative to the humidity in the air. MEILOSE is not a perishable product.

**Packing & Storage**

Safety Information

While MEILOSE is classified as a non-hazardous material, be aware of the following notice to avoid unexpected accidents when handling:
- Dust of MEILOSE is capable of exploding. To avoid dust explosion, store it away from heat, spark, and fire, and do not expose it directly to high temperatures (over 150 ºC). General precaution outlined in NFPA65, “Prevention of dust explosions in industrial plants” and NFPA654 are recommended.

Keep MEILOSE away from any kinds of organic chemicals.

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**Application of MEILOSE**

Building

To provide excellent workability and water retention to spray and manual plasters, dry wall joint compounds, tile cements and grouts, extruded mortars, underwater concretes, etc.

Adhesives

To thicken adhesives and glues, and to form film in adhesive dispersions.

Paints & Coatings

To be used as thickeners, protective colloids and pigment suspension aids. To improve the viscosity stability, and dissolution of water based emulsion paints.

Pharmaceuticals

To be used as emulsifying and dispersing agents for ointment and creams. As binders for plaster bandages, and as a compression aid and coating agent for tablets.

Ceramics

To provide water retention and lubricity in processing.

**R&D Center**

Huiguang established a R&D center in June 2006 focusing on researching and developing new products. Our R&D center is equipped with advanced analysis and application test equipment. We supply high level tailor made products with stable quality to our customers. In order to cater to the trend of the world economic environment, we will constantly research and develop new products and new eco-friendly materials.

Huiguang R&D center will try their best to develop eco-friendly product with high value for the customers.

**Additional Information**

For further information on safety, refer to the Material Safety Data Sheet (MS/DS) and/or contact Huiguang Fine Chemicals directly or our representatives.

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</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>6 - 8%</td>
</tr>
<tr>
<td>60%</td>
<td>9 - 10%</td>
</tr>
<tr>
<td>70%</td>
<td>12 - 14%</td>
</tr>
<tr>
<td>80%</td>
<td>16 - 18%</td>
</tr>
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**Ceramics**

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Scott Chemicals

China
Scott Chemicals Qingdao LTD
1-2705 Room, Block B
International Trade Centre
226 Changjiang Middle Rd
ETDZ, Qingdao

Tel: +86 150 63032031
Fax: +86 532 86973225

Dave Monkhouse, Managing Director
dmonkhouse@scottchem.biz

Daisy Liu, Business Manager
dliu@scottchem.biz

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