High Performance Polycarboxylate Superplasticizer

LIAONING KELONG FINE CHEMICAL CO., LTD.
Company Profile

Liaoning Kelong Fine Chemical Co., Ltd. was founded in 2002, consisting of over 500 staffs by now, among which the 30 are research specialist staff with master and doctor degrees.

The company is a fine chemical supplier based on ethylene oxide and has satisfied perfect product lines for polycarboxylate-based superplasticiser, cutting fluid of silicon for solar energy, polyester elastomer, multifunctional finishing agent, coating additives, food additives and building materials additives. Its products have been widely used in daily use, medicine, spinning and textile printing, coating, printing ink, oil exploitation, metal processing, building and IT industries.
The company comes out among the best suppliers of polycarboxylate-based superplasticiser at home, and has customers across the country and products well sold in America, Russia, Japan, Korea, Israel, Malaysia and New Zealand, etc. The 8 offices set throughout the country aim to better serve our customers with the best and quickest quality products and technical supports.
MPEG
Methoxy Polyethylene glycol

1. Chemical Formula
   \[ \text{CH}_3\text{O(}\text{CH}_2\text{CH}_2\text{O})\text{nH, n}=10-120 \]

2. Synonyms
   Polyethylene glycol
   monomethyl ether

3. Cas No.
   9004-74-4

Quality Specification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Visual Appearance (25°C)</th>
<th>Hydroxyl value (MgKOH/g)</th>
<th>PH</th>
<th>PEG (%)</th>
<th>Moisture (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPEG1000</td>
<td>White to yellowish cream or solid</td>
<td>56.1±3</td>
<td>5.0-7.0</td>
<td>≤0.5</td>
<td>≤0.5</td>
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<tr>
<td>MPEG1200</td>
<td>White to yellowish cream or solid</td>
<td>46.75±3</td>
<td>5.0-7.0</td>
<td>≤0.5</td>
<td>≤0.5</td>
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<tr>
<td>MPEG1300</td>
<td>White to yellowish cream or solid</td>
<td>43.2±2.5</td>
<td>5.0-7.0</td>
<td>≤0.5</td>
<td>≤0.5</td>
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<tr>
<td>MPEG1500</td>
<td>White to yellowish cream or solid</td>
<td>37.4±2.5</td>
<td>5.0-7.0</td>
<td>≤1.0</td>
<td>≤0.5</td>
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<tr>
<td>MPEG2000</td>
<td>White to yellowish solid</td>
<td>28.1±2.5</td>
<td>5.0-7.0</td>
<td>≤1.0</td>
<td>≤0.5</td>
</tr>
<tr>
<td>MPEG5000</td>
<td>White to yellowish solid</td>
<td>11.2±2</td>
<td>5.0-7.0</td>
<td>≤2.0</td>
<td>≤0.5</td>
</tr>
</tbody>
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Application

MPEGs are widely used in cosmetics and pharmaceutical industry because of its good solubility, wetting & lubricating properties and low toxicity. Lower molecular weight is suitable as wetting agent and thickness regulator in cream, emulsion, toothpaste and shave cream, etc. Higher molecular weight is used in lipstick, toilet soap, shave soap, deodorizer, foundation make-up and beauty cosmetics, etc. MPEGs are used as thickener and suspending agent in cleaning agent. MPEGs can react with acrylic acid to make MPEG acrylic ester which is main raw material for high efficient polycarboxylate water reducer. MPEGs show improved solubility characteristics towards organic dyes and ink.

Package & Storage

Package is 200kg iron drum or plastic drum. It is nonhazardous and should be stored in cool and ventilated place.
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