Sodium carboxymethyl cellulose

Sunrose® (CMC)

- Water retention characteristics -

Chemical structure of Sunrose® (CMC)

Structure of sodium carboxymethyl cellulose (CMC- Na)

Sunrose® (carboxymethyl cellulose: CMC) is an anionic water-soluble polymer derived by partially replacing the hydroxyl groups of cellulose with the carboxymethyl groups (etherifying).

Sunrose® is approved as a food additive, and as a pharmaceutical/cosmetic raw material used in a wide variety of fields. It is not only harmless to humans but also features slow biodegradability, making it an extremely safe material for the environment.

Water-retention characteristics of Sunrose® (CMC)

◆ Evaluation of CMC water-retention properties

Drip water on a 1-gram sample and measure water absorption (grams of water per gram of sample) to the point where the sample is observed to be liquid.

<table>
<thead>
<tr>
<th>Product</th>
<th>1% viscosity (mPa.s)</th>
<th>Pure water</th>
<th>0.9% Anti-salt</th>
<th>3.0% Anti-salt</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLD-FM</td>
<td>61</td>
<td>15-20</td>
<td>5-10</td>
<td>5-10</td>
</tr>
<tr>
<td>SN80C</td>
<td>815</td>
<td>20-25</td>
<td>15-20</td>
<td>10-15</td>
</tr>
<tr>
<td>F300HC</td>
<td>2800</td>
<td>25-30</td>
<td>20-25</td>
<td>15-20</td>
</tr>
<tr>
<td>Polycrlylate thickener</td>
<td>3000</td>
<td>20-25</td>
<td>15-20</td>
<td>10-15</td>
</tr>
</tbody>
</table>

For more details on our products, please contact:

Chemical Division

Sales Department No.2

Kansai Sales Department

Phone: +81-3-6665-5900 Facsimile: +81-3-6665-0360

MID Imabashi Building, 2-3-16, Imabashi, Chuo-ku, Osaka 541-0042, Japan
Phone: +81-6-6228-6300 Facsimile: +81-6-6228-6303