Briteframe AA/AMPS
Copolymer of Acrylic acid and 2-Acrylamido-2-Methylpropane Sulfonic Acid

CAS nr: 40623-75-4

Product information

Synonyms: copolymer of acrylic-acrylate-sulfonate, AA-AMPS; AA-AMPSA; Acrylic Acid-2-Acrylamido-2-Methylpropane Sulfonic Acid Copolymer; Sulfonated Polyacrylic Acid Copolymer

Briteframe AA/AMPS combines the carboxylic group of the acrylic acid with the sulphonic acid. The carboxylic group facilitates scale inhibition and dispersion whereas the sulphonic group offers a strong polarity and thus an excellent water solubility. This copolymer is an ideal combination for high calcium tolerance and good scale inhibition for calcium phosphate, calcium carbonate, zinc scales and ferric oxides. It can be used as scale inhibitor and dispersant in high pH and high concentration situations. Applications are in cooling water, oilfield refilling water, metallurgical processes and in iron/steel equipment. Briteframe AA/AMPS is also a dying auxiliary for textiles.

Product specifications

<table>
<thead>
<tr>
<th>Test Item</th>
<th>90% powder</th>
<th>40% solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White powder</td>
<td>Colorless to light yellow liquid</td>
</tr>
<tr>
<td>Density at 20°C, g/cm³</td>
<td>-</td>
<td>1.15 min</td>
</tr>
<tr>
<td>Solid content, %</td>
<td>90.0 min</td>
<td>40.0 min</td>
</tr>
<tr>
<td>pH</td>
<td>3.5 - 7.0 (10% water solution)</td>
<td>3.5 - 4.5 (1% water solution)</td>
</tr>
<tr>
<td>Free monomer (as AA), %</td>
<td>-</td>
<td>0.8 max</td>
</tr>
</tbody>
</table>
Commercial

Packaging:
25 liter jerrycans, 250kg (200 liter) drums, 1250kg (1000 liter) IBC, 24mt ISO tank container (bulk)
Lead time:
6 weeks

Technical

R22: Harmful if swallowed
R36: Irritating to eyes
R38: Irritating to skin

In water treatment mixtures containing organophosphines, Briteframe AA/AMPS synergistically stabilizes corrosion inhibitors like phosphates, zinc and phosphonates.
The recommended pH in water treatment is 7 - 9.5

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