SL-GAH | High-Temperature Gelling Agent

Product Description

(1) Good thermal stability and rheological characteristics

0.8% SL-GAH+20%HCL gelling acid system is applicable to 140~160°C formations. Under the condition of 25°C and 170s⁻¹, the viscosity may reach 40~60mPa·s, 30~35mPa·s in the case of 90°C and 170s⁻¹, and 20~30mPa·s in the case of 120°C and 170s⁻¹.

1.0% SL-GAH +20%HCL gelling acid system is applicable to 160~180°C formations. Under the condition of 25°C and 170s⁻¹, the viscosity may reach 50~70mPa·s, 45~50mPa·s in the case of 90°C and 170s⁻¹, 35~40mPa·s in the case of 120°C and 170s⁻¹, and 20~30mPa·s in the case of 160°C and 170s⁻¹.

(2) Outstanding retardning performance

The experiment indicates that the retarding rate of carbonatite high-temperature gelling agent 0.8% SL-GAH+20%HCL is greater than 90% (compared with white acid).

(3) Good leak-off reducing performance

As high-temperature gelling agent SL-GAH has good rheological characteristics, the leak-off into the formation is greatly reduced.

(4) Excellent compatibility

It’s well compatible with most of corrosion inhibitors, demulsifier, ferric ion stabilizers, anti-swelling agents, etc, and is soluble in water or acid.

Technical Indicators

Technical Indicators of High-Temperature Gelling Agent

<table>
<thead>
<tr>
<th>Item</th>
<th>Indicator</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>White or off-white powder</td>
</tr>
<tr>
<td>Solid content</td>
<td>≥90%</td>
</tr>
<tr>
<td>Grain size</td>
<td>≤30 meshes</td>
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<tr>
<td>Solubility</td>
<td>Easily dispersible and soluble in water and acid</td>
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<tr>
<td>Retarding performance</td>
<td>The retarding rate is greater than 90%, layered, no flocculent precipitate or floating materials</td>
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<tr>
<td>Tackifying performance</td>
<td>The viscosity of 0.8% SL-GAH+20%HCL is 40mPa·s under room-temperature and 170 s⁻¹, and it can reach 20<del>30mPa·s under 120°C; and the viscosity of 1.0% SL-GAH+20%HCL can reach 20</del>25mPa·s under 160°C and 170 s⁻¹, variation of front and rear surface tension is no more than 5mN/m</td>
</tr>
<tr>
<td>Resistance reducing performance</td>
<td>The frictional resistance is 25~35% of that of clear water.</td>
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</tbody>
</table>

Using Method

Before use, SL-GAH should be mixed with acid. “fish-eyes” should be avoided during the process of preparation, and acid heating isn't required. In the case of laboratory preparation, agitator can be used, when any swirl appears in the acid during agitation, the dry powder is evenly mixed into the circumference of the water swirl, and it’s usually agitated for about an hour to prevent dry powder particles from mutual adhesion and conglomeration after being mixed with the acid.

SL-GAH dry powder can be kept in dry and shady environment for over 2 years.

http://www.sloilfield.com

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.
Other Additives

The company also provides corrosion inhibitor, demulsifier, ferric stabilizer and other products well compatible with SL-GAH.

Packing and Storage

The product is packed in plastic bucket and stored in cool and dry places with ventilation. Avoid exposure, fire and water.