QBREAK

Description

QBREAK is a QMAX proprietary breaker for natural and semi-synthetic polymers such as PAC, CMC, HEC, Guar Gum, Starch/Modified Starch etc. This product is not designed to break xanthan gum and synthetic polymers.

Applications

QBREAK can be used to reduce the viscosity of a polymer based drilling fluid as needed for certain operations including solids flocculation and dewatering, and fluid disposal by land farming. Used in a soak fluid, QBREAK helps remove the filter cake of polymer systems by degrading the polymer matrix within the filter cake which leads to increased permeability near well bore and higher well productivity.

This product is recommended in environments with a moderate temperature of up to 140°F (60°C) and pH of 4 - 7 to ensure its best performance.

Features and Benefits

- Effective breaker for natural and semi-synthetic polymers.
- Reduces fluid viscosity in polymer based drilling fluids.
- Helps in filter cake removal of polymer systems in the production zone.
- Non-damaging to the reservoir formation.
- Effective breaker at temperatures up to 140°F (60°C) temperature.
- Cost effective.
- Safer breaker option than bleach, oxidizing agents and acids.

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Free flowing powder</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.54</td>
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<tr>
<td>pH at 10%wt.</td>
<td>2.6</td>
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<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

Recommended Treatment

Generally, QBREAK is used at a concentration of 0.7 – 2.1 ppb (2 - 6 kg/m³). Fluids with higher polymer content will require a higher concentration of QBREAK than fluids with lower polymer content. Pilot testing can be performed to determine the optimum product concentration. For good product homogeneity in the drilling fluid, mix through a standard mud hopper over one circulation.

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

QBREAK is available in 44 lb (20 kg) sacks.

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www.qmax.com – 11700 Katy Fwy, Ste 200, Houston, TX 77079 – Tel.: +1 (832) 672 4476