19-N™ Chemical Additive

Cationic Nonemulsifier

19-N™ chemical additive is a cationic nonemulsifier used in acids and other aqueous fluids to help prevent acid and oil emulsions.

Features

19N chemical additive is a very effective nonemulsifier that can be used to prevent emulsion formation with a broad range of crude oils. Primarily used in carbonate formations due to its cationic nature, it can be included in the formulation of a wide range of treatment fluids.

Applications

19N chemical additive is used primarily in carbonate formations. The required nonemulsifier concentration depends on the crude oil, formation temperature, formation fines, and the concentration of other additives in the live and spent acid. However, 19N chemical additive concentrations greater than 5 gal/M gal of acid are not usually necessary.

Compatibility

19N chemical additive is compatible with most corrosion inhibitors and other cationic and nonionic chemicals. Compatibility testing should be performed before 19N chemical additive is used with crosslinked fracturing fluids. The use of 19N chemical additive in treatment fluids that contain anionic chemicals should generally be avoided. 19N chemical additive is also not recommended for use in sandstone formations due to its oil-wetting characteristics.

Benefits

19N chemical additive can provide the following benefits:

- It is a very effective nonemulsifier and can be used to prevent emulsion formation with most crude oils.
- It water-wets carbonate formations.
- It is compatible with corrosion inhibitors.

<table>
<thead>
<tr>
<th>19N™ Chemical Additive—Product Specifications</th>
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<tbody>
<tr>
<td>Part No. (Bulk)</td>
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<tr>
<td>Part No. (55-gal drum)</td>
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<tr>
<td>Part No. (5-gal bucket)</td>
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<td>Form</td>
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Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.