**Attapulgite™ Suspending Agent**

Attapulgite™ suspending agent is a colloidal clay mineral composed primarily of magnesium silicate, silica, and crystalline quartz. In salt water, attapulgite suspending agent swells to approximately 10 times its original volume.

**Applications**

Attapulgite suspending agent was designed for saltwater applications. It is used for decreasing slurry weight and increasing slurry volume. It is effective at temperatures up to 500°F (260°C). Typical attapulgite suspending agent concentrations are 2 to 10%.

**Compatibility**

Attapulgite suspending agent is compatible with slurries containing fibrous, granular, and flake-type lost-circulation materials.

**Benefits**

Attapulgite suspending agent can provide the following benefits:

- It is easily obtained and can provide an effective lost-circulation material when mixed with other common oilfield materials.
- The overall cost for treatment can be less than that of other lost-circulation methods.
- This material can be effective in regular and cavernous lost-circulation zones and where drilling with fibrous, granular, or flake materials has been ineffective.
- Attapulgite suspending agent has a shelf-life of up to 24 months and is not classified as a hazardous waste by the Environmental Protection Agency (EPA).

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<th>Attapulgite™—Product Specifications</th>
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For more information on the benefits Attapulgite™ Suspending Agent can bring to your cementing operations, contact your local Halliburton representative.