

# AMC 117™

Clay &amp; Shale Stabilisers

**IMDEX™**

## Description

117™ provides clay/shale inhibition in polymer-based drilling fluids. 117 reduces the potential for bit balling, torque and drag as well as other issues related to drilling clay and shale. All this is delivered by a product that is more environmentally acceptable than the inhibitor typically used, Potassium Chloride.

## Application

It is important to observe the condition of cuttings at surface. Sticky or soft cuttings may indicate insufficient inhibition because of 117 depletion. 117 is a preventative additive and must be added to the system before drilling into the troublesome shale or hydratable clay section.

## Recommended Treatment

The recommended concentration is 1-3.5% by volume, with concentration ultimately depending on shale reactivity and the amount present in the section to be drilled.

117 is consumed as the formation is drilled and a proper concentration must be maintained. For optimum results, monitor penetration rates, rheology, dilution and solids control and adjust treatment, as necessary.

## Limitations

When added to a solids laden mud, 117 will cause flocculation to occur, resulting in a significant increase in viscosity. 117 is ineffective when added to a mud system that includes bentonite-based products.

## Advantages

- Provides clay/shale inhibition
- Compatible with most water-based systems
- Prevents bit balling
- Environmentally acceptable

## Typical Physical Properties

<b>Appearance:</b>	Clear liquid
<b>Specific gravity:</b>	1.08 – 1.18
<b>Solubility in water:</b>	Soluble
<b>pH (1% solution):</b>	8 – 10

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

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