

# AMC K ION™

## CLAY & SHALE STABILISERS



### Description

AMC K ION™ is a product that can be considered as an alternative to potassium chloride (KCl) in situations where environmental restrictions prohibit the use of chloride based chemicals.

### Application

AMC K ION™ provides effective shale inhibition properties to water based fluids without the chlorides associated with KCl based systems. A 2% KCl solution contains approximately 9,500 ppm of chloride while the equivalent of AMC K ION™ contains only 165 ppm of chloride. This significantly reduces the chloride concentration and greatly reduces the environmental risks associated with the use of fluids requiring clay inhibition. The shale stabilising properties of AMC K ION™ are significantly enhanced when used in conjunction with encapsulating polymers such as AMC CLAY DOCTOR™, AMC EZEE PAC R™ or AMC CR 650™.

### Typical Physical Properties

Appearance: Red translucent liquid  
 pH (1 % solution): 7.0 – 9.0  
 Specific gravity: 1.05 – 1.15

### Recommended Treatment

Apply cleaning solution directly to surfaces. Allow time for detergent to AMC K ION™ is typically applied at concentrations of 2.0 – 6.0 L per 1000L of make-up water. AMC K ION™ should be added very slowly to the base fluid if solids are present. It can be added through a mud hopper, or directly into a mud tank provided good agitation is applied, or poured onto a water jet stream. As drilling progresses the concentration of AMC K ION™ should be monitored and adjusted to provide the optimum inhibition to control clay hydration.

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

### Advantages

- Economical
- Easily mixed
- Excellent shale and clay stabiliser
- Improves productivity
- Effective at all pH levels
- Compatible with all polymer
- Compatible with contaminants, hard water and salinity
- Improves core recovery.

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