

AMC CR 650™

CLAY & SHALE STABILISERS



Description

AMC CR 650™ is a high molecular weight, powdered polymer which has been developed to improve cuttings encapsulation as well as helping to stabilise the formation. AMC CR 650™ forms a protective polymer film on the drill pipe and bit as well as on the walls of the bore hole which helps to provide lubrication when drilling in troublesome formations. It is ideally suited for use in horizontal directional drilling, water well, mining and tunnelling applications.

Application

AMC CR 650™ provides cuttings encapsulation and improved wellbore stability in a variety of drilling fluids. Typical concentrations range from 0.5 – 3kg / m³ (0.175 – 1lb / bbl). It can be used as a single product, low solids mud system, or it can be combined with AMC GEL™ or AMC EZEE TROL™ to form a more robust mud system. It can also be used on its own or with other clay and shale stabilisers such as potassium chloride or AMC SHALEHIB ULTRA™ to give a high degree of clay or shale stabilisation, although higher concentrations may be required to maintain viscosity.

Typical Physical Properties

Appearance: White, free flowing granules
 Solubility: Soluble in water
 pH (0.5 % solution): 7 – 8

Recommended Treatment

APPLICATION	KG / M³	LB / BBL
Add to fresh water under normal drilling conditions	0.5 – 0.75	0.15 – 0.3
To stabilize swelling clays and shales	0.5 – 1.0	0.15 – 0.4
To improve core recovery in troublesome formations and to increase hole stability	1.0 – 3.0	0.4 – 1.0

Advantages

- Prevents dispersion and swelling of shales and clays by way of encapsulation
- Promotes more effective removal of solids
- Promotes rapid settling of cuttings in settling pits
- Improves lubricity
- Compatible with other polymers commonly used in water based fluids such as AMC XAN BORE™ and AMC PAC™
- Will not wash off AMC ROD GREASE XTRA TACKY™
- Economical – excellent viscosity at low concentrations
- Environmentally acceptable – non-hazardous, non-toxic and will not ferment.

Limitations

- Sensitive to hardness – make up water should be treated for hardness with soda ash ensuring hardness of less than 200mg / L.
- Tends to blind the screens on shakers limiting its use for general drilling applications with SRU's

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

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