

AMC PLUG™

LOST CIRCULATION MATERIALS



Description

AMC PLUG™ is a polymer in granular form that absorbs up to 500 times its original volume in water. AMC PLUG™ is ideal for sealing zones of lost circulation and can also be used to reduce rod vibration in holes where lost returns are a problem.

Application

AMC PLUG™ should be partially pre-hydrated in fresh water or the drilling fluid before being pumped down into the cavity or when spotted across the thief zone. The mixture will swell rapidly to help seal and plug fissures, cracks and porous formations. Drilling can recommence after a waiting period of 30 minutes, however if salinity and hardness are present the waiting time should be extended to 1 hour. This procedure can be repeated multiple times until circulation is regained. In circumstances where a low water level is present or total loss is experienced, AMC PLUG™ can be poured into the annulus to cushion vibration.

Typical Physical Properties

Appearance:	White free flowing crystals
Bulk density:	510 ± 50
Particle size:	2 – 4 mm
Solubility:	Swells rapidly on contact
pH:	7.0 – 8.0

Advantages

- Easy to use
- Very economical
- Extremely high expansion rate
- Environmentally acceptable
- Easy to drill out
- Compatible with most products and systems.

Recommended Treatment

AMC PLUG™ should be used in quantities of 0.5 – 1.5 kg / 20 L of fresh water or the drilling fluid before being pumped down into the cavity or when spotted across the thief zone.

Avoid pumping the AMC PLUG™ in a dry state and ensure consideration has been given to down hole tooling tolerances and lost circulation conditions. When using AMC PLUG™ in diamond coring applications ensure the tube has been retrieved, and the suction and any other internal pump screens have been removed before pumping the solution. Repeat as necessary to regain circulation.

AMC PLUG™ can be used independently or to compliment other lost circulation control materials.

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

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