

# AMC TORQUE GUARD™

AMC's premium, high performance, extreme pressure lubricant.



AMC TORQUE GUARD™ is highly effective in reducing torque, ensuring target depth is achieved sooner, down hole equipment life is extended and geological targets can be delivered without the risk of broken equipment lost down the hole.

AMC TORQUE GUARD™ is a high performance, extreme pressure lubricant with advanced adhesion and filming characteristics. The formulation enhances the lubricating characteristics of most water-based drilling fluid systems resulting in reduced friction.

## Operates in Multiple Environments

AMC TORQUE GUARD™ will operate across a broad range of systems with variable fluid properties; including water, saline, polymer or bentonite, as well as a variety of changing water environments; including high salt, high pH and extremely high levels of calcium and magnesium hardness.

AMC TORQUE GUARD™ is designed for versatility, and does not require a system change during operations.

## Delivers Superior Torque Reduction

AMC TORQUE GUARD™ is highly effective in producing effective film strength to deliver superior torque reduction.

## Key Benefits

- Rapidly dispersible, highly miscible
- Compatible with most water-based muds
- Improves penetration (ROP) and depth capacity
- Enhances the cooling action of the circulating fluid
- Protects against corrosion
- Eliminates rod vibration
- Does not contribute to core staining
- Stable in a range of waters types
- Effective in a wide range of drilling applications and geological conditions
- Minimises bit balling
- Reduces the potential of differential sticking
- Improves rod, bit and reamer life
- Environmentally acceptable and non-hazardous.

## Improves Productivity

AMC TORQUE GUARD™ enhances productivity through increasing Rate of Penetration, and is particularly effective in deep directional holes where high rotational torque slows hole advancement.

AMC TORQUE GUARD™ improves the cutting action at the bit face and reamer, resulting in increased Rate of Penetration (ROP). Its protective film covers metal surfaces, reducing frictional drag in extreme pressure environments, including both metal to metal, and metal to formation friction points.

Using AMC TORQUE GUARD™ will reduce the occurrence of drilling problems which cause downtime. The formulation is effective where there is a high risk of differential sticking, such as in highly deviated sections and sections with high differential pressure.

In extremely hard, abrasive formations, deep directional holes or when shale and clays are encountered, increasing dosage rates of AMC TORQUE GUARD™ will ensure the hole continues to be productive.

AMC TORQUE GUARD™ has been highly effective in reducing rotational torque across a variety of drilling applications including diamond coring, deep directional drilling, vertical and horizontal wells.

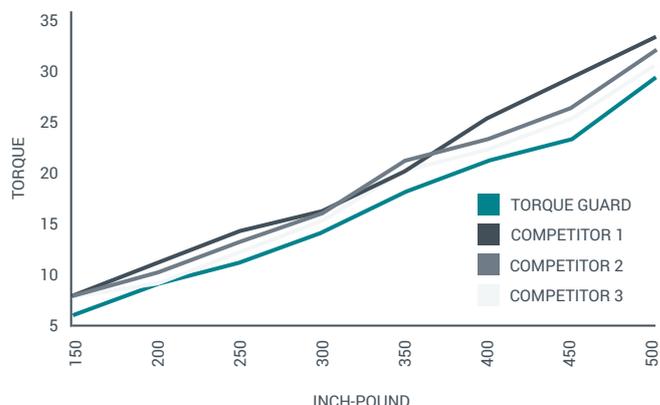
## Extends Equipment Life

AMC TORQUE GUARD™ forms a protective layer which coats the metal surfaces of all down hole equipment, resulting in reduced wear on cutting surfaces, down hole equipment, wet-ends and protection against corrosion. By extending the life of drill bits and other equipment, expensive maintenance and replacement costs can be delayed.

## Environmentally Friendly

AMC TORQUE GUARD™ uses a biodegradable vegetable oil base which has minimal impact on the environment, aquatic systems and wildlife. The formulation is safe to use in all drilling operations, especially in environmentally sensitive locations.

Torque Comparison at 5L / 1000L in Fresh Water



AMC TORQUE GUARD™ delivers the lowest torque under pressure to advance holes faster.

## Further Information

For more information please go to our website [www.amcmud.com](http://www.amcmud.com) or contact your nearest AMC office.

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