

# POLYTROL®

ProductDataSheet

## POLYAMINE SHALE INHIBITOR (ETHER AMINE)

### Description

POLYTROL® is a new generation organic polyamine shale inhibitor – ether amines. It is a key inhibitive ingredient of the new HPWBM - high-performance water-based muds. This type of mud has comparable inhibitive properties to oil-based mud (OBM).

It is a mildly cationic terpolymer. Positively charged POLYTROL® molecules adsorb onto the negatively charged planar surfaces of clay particles leaving no place available for water molecules.

With regards to inhibitive properties, POLYTROL® based drilling fluids greatly surpass KCl/PHPA muds and more closely resemble the invert emulsion drilling fluids.

### Applications/Functions

- clay mineral hydration inhibitor (illite, chlorite, kaolinite, smectite)
- ensures integrity of the wellbore wall and cuttings, prevents from desintegration
- coats metal surfaces with the protective film, prevents bit and BHA balling, improves ROP
- is a main component of HPWBM – cost effective and environmentally friendly OBM alternative

### Advantages

- unlike KCl does not negatively influence logging results
- unlike KCl – less transportation and storage costs
- unlike KCl does not harm the environment
- minimal impact on the reservoirs, recommended to use in drill-in fluids (reservoir drilling fluids)

### Recommended treatment

1-1,8 ppb (3-5 kg/m<sup>3</sup>)

### Typical properties

Liquid

### Handling

Please refer to the MSDS for specific instructions

### Packaging

POLYTROL® polyamine shale inhibitor is packaged in 55-gal (208 l) drums

Disclaimer: Prior to using this product, the user is hereby informed and cautioned to make their own determination and assessment of the safety and applicability of the product for the specific job. It is the final responsibility of the user to ensure that the product is suitable and the information is applicable to the user's specific application.



КЛОТО

Россия, 163012, г. Архангельск, ул. Кировская 10/2, info@cloto.ru