

PRODUCTS TECHNICAL DATA

PRODUCT NAME : Tannin based Mud Thinner, ME--THIN

COMPOSITION / INFORMATION ON INGREDIENTS AND APPLICATIONS

ME-THIN Zwitterionic co-polymer viscosity thinner, is a compound of Acrylic acid & MAH ,etc (AMTA) which is composed of a variety of anionic, non-ionic functional groups and organic cationic monomers ,etc synpolymerized It is a new type of highly effective mud treatment agent with good water solubility, high temperature resistance, viscosity thinning and inhibition of clay-rich reactive shale hydration and swelling.

It's available for any fresh water and brine, and it's compatible with polymer treating additives, The dosage can be selected according to the downhole condition and the adjustment degree of filtration loss during drilling.

Profile of **ME-THIN**:

In the molecular chain contains organic cationic and anionic reactive cationic, it takes in static way and strong adsorption to the negatively charged surface of clay particle, and the part of the negative charge on the surface of the clay, and form a compact coating , that makes membrane thickening, at the same time reducing the flocculation trend of clay particles, enhance the stability of the clay ,smaller molecular weight create the preferential adsorption, so the **ME--THIN** helps enhanced inhibition meanwhile reduced the high viscosity .

Benefits:

1. Low dosage and high viscosity reduction efficiency.
- 2, Strong inhibition, can inhibit the mud shale and drilling cuttings of water dispersion.
3. Strong salt and calcium resistance.
- 4, No Cr, greatly reduce the environmental pollution, to meet the environmental requirements.
5. Good water solubility, thin, tough and smooth mud cake, lower filtration rate.

6. Good compatibility, suitable for non-dispersive drilling fluid and dispersive drilling fluid

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Recommended dosage: 0.1-0.5% Appearance: white free flowing powder.