

# CLAY HYDRATION SUPPRESSANT (POLYAMINE)

SHALE STABILISERS

INSH 6000 – PRODUCT DATA SHEET

## Description

Polyamine is used in polymer based fluids. It can be added directly to the mud system with no effect on viscosity or filtration properties. It effectively inhibits shale or clays from hydrating and minimizes the potential for bit balling.

## Application

Polyamine can be used as a shale inhibitor in water base drilling fluids to maintain wellbore stability during high-rate water packs. It is tolerant to common contaminants such as cement, hard water, CO<sub>2</sub>, drill solids and crude oil. It can effectively reduce the KCl consumption.

## Advantages

- Provides excellent shale inhibition and limits cuttings dispersion
- Reduces accretion potential and consequently bit and BHA balling
- Environmentally acceptable for both offshore and onshore applications
- Can be added to the system directly without adverse effects on viscosity and filtration properties

## Specifications

S.No.	Parameter	Specification
1	Physical State	clear colourless / pale yellow liquid, free from visible impurities
2	Miscibility of 2% (v/v) of CHS with water	Completely miscible
3	Miscibility of 2% (v/v) of CHS with 3 % KCl solution	Completely miscible
4	Specific Gravity at 24±2°C	1.01 – 1.10
5	Chemical Assay: Reinecke Salt gravimetric method, percent by mass	20.0 (Maximum)
6	Swelling test <i>Swelling by 2 % (w/v) solution of the sample by LSM against Bentonite pellets compressed to 10,000 psi in a 02 hrs. test, percent</i>	24.0 (Maximum)
7	Apparent Viscosity <i>of treated (2% (w/v) of Polyamine) Bentonite suspension at 24±2°C, Cp</i>	Not more than 15 % of base mud
8	MBC of treated Bentonite slurry <i>(2 ml Bentonite slurry + 5 ml distilled water + 5 ml (2 % Polyamine solution in distilled water), Stir for 30 minutes, ml</i>	65% (Maximum) of Bentonite slurry

## Packaging

55 Gal. drum/208 Litre barrels. Customized packaging is available on request.

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