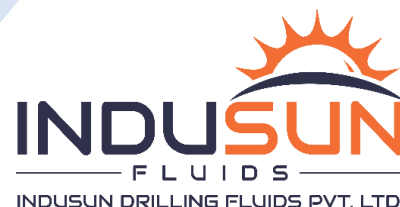


THIEF ZONE SEAL ADDITIVE®

NEW GENERATION LOSS CIRCULATION MATERIAL

INLC 1000 – PRODUCT DATA SHEET



Description

The Thief Zone Seal (TZS) Additive® is a smart lost circulation prevention and mitigation solution. It essentially helps in sealing and closing fractures in the formation, thus effectively controlling fracture propagation and wellbore instability. The TZS Additive is a blend of granular and fibrous materials in a single sack, high solids formulation. Once injected, it helps in bridging and sealing the thief zone and increasing the pressure so as to force the water/drilling fluid out of the fracture. It leaves a deposition of solids in place to form an impermeable filter cake, thus plugging the loss zone.

Application

The Thief Zone Seal Additive provides effective sealing in natural and induced fractures, formations with large pores or cavities and washed-out sands. It can be used for drilling in all kinds of formations – coal, limestone, sand and shale, as well as in aqueous and non-aqueous based fluids. The amount required for each application depends on the severity of the lost circulation.

Advantages

- Bridges micro-fractures and porous formations effectively to control moderate to heavy losses
- Helps in maintaining wellbore stability
- Reduces drilling cost and increases overall efficiency
- Suitable for well of all types, in any location
- Helps in reducing HSE incidents

Recommended Treatment

The TZS Additive is mixed as a slurry and weighted to at least the density of drilling fluid systems (fresh water or oil based.)

Specifications

S.No.	Parameter	Specification
1	Physical State	Free flowing solid material, free from visible impurities
2	Moisture content at 105±2°C, percent by mass	10 (Maximum)
3	pH of 5% (w/v) suspension in deionized / distilled water	7.0 – 9.5
4	Screening Test <i>Residue on 2 mesh screen (ASTM) after manual sieving for 10 minutes</i>	Will not retain any particulate/granular material
5	Performance Test <i>Base Drilling Fluid: Fresh water + 5% KCl + 0.45% XCP + 1.2% PAC (L) + 0.3% PAC (R) + 6% micronized calcium carbonate. pH: 9.5 – 10.</i>	LCM slurry will hold 500 psi pressure, minimum for 30 minutes
6	Loss Circulation Test <i>500 ml Base Drilling Fluid (composition same as in serial number 5) treated with 60ppb concentration of LCM sample, and agitated for 5 minutes in Hamilton Beach Mixture. Slurry kept for 1 hour at 24 ±2°C for hydration</i>	

Packaging

25 Kgs pre ply kraft paper bag. Customized packaging is available on request.

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