

FIRST ★ ★ ★ ★ ★ STRIKE

WELLBORE STABILITY ENFORCEMENT • LOST CIRCULATION AND STUCK PIPE DEFENSE

PRODUCT DESCRIPTION

FIRST STRIKE is a blend of fiber, flake and granulated sealant particles used as the first line of defense against lost circulation. This product can be used in water-based and oil-based mud, as well as workover fluids. It is designed to provide a combination of rigid, flexible, deformable, and compressible particles, which enhance a fluid's particle size distribution (PSD) and sealing effectiveness in fractured, vugular, and/or depleted formations. BLOCKADE™ can enhance the sealing effectiveness of FIRST STRIKE in fractured formations.

FIRST STRIKE can be used in sweep or pill fashion, with typical concentrations varying from 25 – 75 ppb. FIRST STRIKE can be used in conjunction with BLOCKADE in a lost circulation pill, typically in ratio of two parts FIRST STRIKE to 1 part BLOCKADE. FIRST STRIKE can also be used to reinforce fractures repaired by a BLOCKADE squeeze through a systematic application of follow-up sweeps with pills containing 25 – 50 ppb FIRST STRIKE.

FIRST STRIKE is especially useful for increasing wellbore hoop strength by creating a stress cage in fractured formations. This process can actually increase formation integrity and fracture resistance as fracture closure stress (FCS) is increased. Depleted sands can also be strengthened with FIRST STRIKE in order to reduce the likelihood of lost circulation and differential sticking occurrence.

Fracture tip screen-out is a major benefit achieved with FIRST STRIKE. Proactive applications with FIRST STRIKE through pills pumped in sweep fashion can be effective in the prevention of fracture propagation as a result of early fracture tip screen-out.



PHYSICAL PROPERTIES

- Appearance: Dark gray powder
- Average Bulk Density: 40.65 lb/ft
- Specific Gravity: 1.79

PACKAGING

- FIRST STRIKE is provided in 25 pound bags, palletized and double shrink-wrapped.
- There are 100 sacks per pallet (100sx/pal).

PRODUCT ADVANTAGES

- Mechanical sealing and strengthening of weak formations.
- Prevention of differential sticking.
- Mud loss prevention through early fracture tip screen-out.
- Formation strengthening through stress cage development.
- Lost circulation prevention and remediation.
- Mud seepage loss control.
- Oil-base, water-base, and brine fluid compatible.
- Filter cake quality enhancement.

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