



# WeLSAVER™

## Advanced Multi-Modal Bridging Technology for Drilling Fluid Loss Control

### Description

WeLSAVER™ is an advanced multi-modal bridging technology engineered for drilling fluid loss control. Formulated with a wide, engineered particle size distribution, WeLSAVER™ delivers effective mechanical sealing across a broad range of fracture widths, vugs, and highly permeable formations encountered during drilling operations. The multi-particle system promotes rapid seal development, supports sustained circulation, and enhances wellbore stability under variable loss conditions. By reducing fluid invasion and maintaining system integrity, WeLSAVER™ helps improve drilling efficiency and minimize non-productive time.

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### Advantage

- WeLSAVER™ is engineered with a broad particle size distribution to bridge and seal fractures, vugs, and permeable zones of varying apertures.
- The engineered blend promotes rapid lost circulation control without significantly increasing equivalent circulating density when used as directed.
- Compatible with water-based, oil-based, and synthetic drilling fluid systems, supporting flexible deployment across different well environments.
- The formulation helps sustain circulating returns and minimize solids influx during loss events.
- WeLSAVER™ simplifies logistics by serving as a single broad-spectrum additive rather than requiring multiple particles or blend sequences.

### Application

- WeLSAVER™ is used to mitigate partial to severe lost circulation during drilling operations.
- It is effective in naturally fractured formations, high-permeability sands, vugular intervals, and depleted zones.
- The additive may be introduced into the active drilling fluid system for continuous seepage control.
- For more significant loss events, WeLSAVER™ can be pumped as part of a dedicated lost circulation pill.
- It supports wellbore strengthening strategies where fracture sealing and stress cage development are desired.

## Environmental Advantage

- WelSAVER™ meets LC50 aquatic toxicity testing criteria, supporting environmentally responsible drilling operations.
- Efficient loss mitigation reduces drilling fluid waste and minimizes the total volume of fluids and additives required on location.
- Improved fluid retention lowers the likelihood of repeated treatment cycles, decreasing overall material consumption and associated rig time.
- More stable hole conditions reduce unnecessary trip cycles and associated operational impacts.
- Enhanced drilling efficiency contributes to lower fuel usage and a reduced overall environmental footprint.

## Treatment Recommendations

- Determine WelSAVER™ dosage based on anticipated loss severity, drilling fluid properties, and formation characteristics.
- Laboratory evaluation is recommended to assess compatibility with the existing mud system and confirm rheological stability.
- WelSAVER™ may be added via hopper to the active circulating system or blended into a specific lost circulation pill.
- Adequate mixing and circulation energy are recommended to promote uniform distribution and sealing performance of the particle blend.
- Monitor pit volumes and returns closely during placement to evaluate treatment effectiveness and adjust dosage as required.

## Physical Properties

Appearance: Black granules with multicolored rigid flakes

Temperature: Up to 1,112°F (600°C)

Specific Gravity: 1.15–1.30

Bulk Density: 48 lb/ft<sup>3</sup>

## Handling and Storage

WelSAVER™ should be stored in a clean, dry environment and protected from moisture until use. Packaging should remain sealed until blending to prevent contamination. Standard bulk material handling practices should be followed, and personnel should consult the Safety Data Sheet for appropriate safety guidance and personal protective equipment.

## Packaging

- WelSAVER™ is packaged in 50 lb sacks, with 40 sacks per pallet.
- Each pallet of WelSAVER™ is UV shrink wrapped for added protection during storage and transportation.



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