



# Kol-Seal®

## Lost Circulation Material/Cement Extender

### Description

Kol-Seal® lost circulation material and cement extender is a lightweight, granular additive engineered for use in primary and remedial cementing applications where fluid loss control and density reduction are required. Featuring a controlled particle size distribution, Kol-Seal enables efficient mechanical bridging across permeable and fractured formations to mitigate losses while maintaining slurry pumpability and placement integrity. The engineered particle size distribution allows coarse and medium particles to establish an initial bridging framework, while finer particles and cement solids pack and seal the matrix openings to form a competent barrier. Kol-Seal® supports the design of lower-density cement systems for improved hydrostatic management while enhancing wellbore cleanup through mild scouring action, improving overall cement placement for long-term zonal isolation performance.

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### Advantage

- Kol-Seal® is insoluble in oil and remains stable at elevated downhole temperatures, ensuring reliable performance under a wide range of well conditions.
- The additive enables the design of lower-density cement systems without significantly altering thickening time, preserving predictable slurry behavior and placement schedules.
- Cement systems formulated with Kol-Seal® develop higher compressive strengths compared to many conventional lost circulation and extending additives, supporting long-term zonal isolation integrity.
- Kol-Seal® is compatible with commonly used cement additives and does not require specialized mixing equipment or complex blending procedures, simplifying field implementation and reducing operational risk.
- The controlled particle size distribution enables efficient mechanical bridging across permeable and fractured formations, effectively mitigating fluid losses while maintaining slurry stability.

### Application

- KolSeal extender is designed for primary cementing operations in permeable, weak, or naturally fractured formations where fluid loss control is required.
- Remedial cementing treatments to address partial or severe lost circulation conditions.
- Low-density cement system design for depleted reservoirs or formations with narrow fracture gradients.
- Cementing across zones with a history of losses to improve placement efficiency and zonal isolation.
- Wells requiring enhanced mud displacement and improved bonding conditions prior to cement placement.

## Environmental Advantage

- Kol-Seal® reduces cement and slurry losses to permeable or fractured formations, directly minimizing material waste at the source.
- By preventing lost circulation, Kol-Seal® reduces the likelihood of remedial squeeze jobs and repeat cementing operations, lowering total material consumption and associated operational emissions.
- Its ability to support optimized low-density cement system design can reduce overall cement usage in appropriate applications, contributing to a smaller material and carbon footprint.
- Improved placement efficiency and reduced non-productive time decreases overall rig operating hours, supporting lower fuel consumption and reduced operational emissions.

## Treatment Recommendations

- Typical concentrations range from 5 to 50 lb per sack of cement, with an optimum range of 10 to 25 lb per sack for most lost circulation and extending applications.
- Each 10 lb per sack increases slurry yield by approximately 0.17 cubic feet, which should be considered when designing the cement system
- Add approximately 1 gallon of water for every 25 lb of Kol-Seal® to help maintain proper slurry rheology, as Kol-Seal does not absorb water and the additional fluid supports effective mixing and placement.

Detailed mixing procedures are available upon request.

## Physical Properties

Appearance: Black granules  
Temperature: >1,000F (540C)  
Specific Gravity: 1.3  
Absolute Density: 80.8 lb/ft<sup>3</sup>

## Handling and Storage

Avoid generating dust and use with adequate ventilation in accordance with applicable occupational exposure guidelines. Keep away from heat, sparks, open flames, and other ignition sources, and prevent dust accumulation during handling and storage. Ground equipment during bulk transfer operations to reduce the potential for static discharge. Store in a dry, well-ventilated area with containers properly closed when not in use. Refer to the Safety Data Sheet for complete health, safety, and regulatory information

## Packaging

- Kol-Seal® is available in 50 lb (22.7 kg) bags, with 60 bags per pallet.
- The product is available in intermediate bulk containers (IBCs) with a typical net weight of approximately 2,200 lb (998 kg).
- Bulk delivery options are available upon request.



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