



# Kol-Seal® Fine

## Lost Circulation Material/Cement Extender

### Description

Kol-Seal® Fine is a finely engineered lost circulation material and cement extender designed for oilfield cementing applications where seepage losses and pressure-sensitive formations are encountered. The product features a controlled fine particle-size distribution that enables effective bridging of micro-fractures and permeable formations, helping to reduce fluid invasion and maintain circulation during cement placement.

Kol-Seal® Fine supports the design of lightweight, high-yield cement systems while maintaining compressive strength development. By sealing minor loss zones and improving slurry placement efficiency, the additive helps operators achieve reliable zonal isolation and reduce the risk of remedial cementing operations. The product is particularly effective in formations with micro-fracturing, depleted pressure regimes, or high permeability where traditional extenders alone may not provide sufficient loss control.

---

### Advantage

- Kol-Seal® Fine features an engineered fine particle size distribution that enhances seepage loss control and improves mechanical bridging across micro-fractures and permeable formations.
- It supports the design of lightweight, high-yield cement systems while contributing to higher compressive strength development compared to conventional extenders.
- The product has minimal impact on cement thickening time and remains thermally stable at elevated temperatures.
- KolSeal Fine is insoluble in oil, maintaining its integrity in hydrocarbon environments.
- It is compatible with most cement additives and drilling fluid systems and can be mixed easily without specialized equipment.

### Application

- KolSeal Fine is designed for primary cementing applications where lightweight or extended cement slurry systems are required to manage hydrostatic pressure.
- It is effective in remedial cementing operations to control partial or severe fluid losses and restore zonal isolation.
- The additive enhances seepage loss control in permeable or micro-fractured formations during cement placement.
- Can be incorporated into cement slurries to increase yield and reduce overall slurry density without compromising strength development.
- KolSeal Fine supports fine particle bridging within the formation matrix to help seal minor loss zones during placement.

## Environmental Advantage

- Kol-Seal® Fine reduces cement and slurry losses to permeable or fractured formations, directly minimizing material waste at the source.
- By preventing lost circulation, Kol-Seal® Fine 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 25 percent by weight of cement, depending on loss severity and slurry design requirements.
- Conduct laboratory testing prior to field application to confirm slurry rheology, thickening time, and compressive strength development.
- Add KolSeal Fine through the dry blend or bulk blending system to ensure uniform dispersion within the cement slurry.
- Adjust mix water as required to maintain desired slurry density and pumpability.
- Monitor returns and placement parameters during cementing to confirm effective loss mitigation and make adjustments if necessary.
- Kol-Seal® Fine does not absorb water, allowing slurry rheology and available mix fluid to remain predictable during cement slurry design.

## 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. 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® Fine is available in 50 lb (22.7 kg) bags, with 40 bags per pallet.
- The product is available in intermediate bulk containers (IBCs) with a typical net weight of approximately 2,200 lb (998 kg).



WelDril Holdings, LLC.  
701 W Hancock, Muskogee, Oklahoma 74401, United States  
(800) 247-9433 (918) 686-8585

The information in this data sheet is provided as general knowledge only. The conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser test the product to determine the suitability for purchaser's application. Purchaser assumes all risk of use, dosage, and handling of this product.

©2026 WelDril. All rights reserved.