

# Liquid Casing FINE

## Wellbore Stabilizing Additive for Weak Formations Up To 300 Microns



### Overview

A specialized noninvasive (NIF) loss circulation material (LCM) designed to be mixed in the circulation to prevent damage to mechanically weak formations and to seal micro-fractures up to 300 microns. Liquid Casing® Fine can also be mixed with Liquid Casing® Coarse to cure general and severe loss circulation without altering the rheology of the mud.

Liquid Casing® Fine is composed of particle shapes that maximize high-pressure integrity and compressibility designed to seal fractures up to 300 microns.

Its particles work together in the drilling mud to "wedge" into the surface of micro-fractures and porous formations to prevent and halt the invasion of fluids and solids.

The result is a surface seal that is hard like a "casing" but able to bend like a "liquid", forming a rubber-like cork that protects the formation from harm, stabilizing the wellbore.

### Safety & Handling

Refer to the safety data sheets (SDS) for handling, transport, environmental and first aid information by contacting [admin@liquidcasing.com](mailto:admin@liquidcasing.com).

Note: The use of solid lost circulation materials should be limited when pumping through small orifices, including liner hangers, stage collars, and poppet-type float collars and casing shoes. The use of bottom plugs with these materials is not recommended.

### Features and Benefits

- Seals fractures up to 300 microns
- Maximum return permeability
- Wellbore stabilizing
- No adverse affects to mud rheology
- Reduces torque and drag.
- Reduces wall cake permeability
- Prevents stuck pipe
- Prevents differential sticking
- Helps logging and casing run smoothly
- Forms effective filter cake
- Pump through all MWD and downhole tools
- Prevents seepage loss
- Virtually eliminates formation harm
- Compatible in OBM, WBM and SBW
- Approved for use in North Sea
- 100% Biodegradable and nontoxic

### Lost Circulation Application

- Mix 15 ppb LC Fine with 15-20 ppb LC Coarse and 15 ppb Bentonite
- Seals depleted sands and micro-fractures
- Seals highly permeable formations with compressibility

Appearance	Typical temp. range	Typical concentration	Specific Gravity	Bulk Density	Absolute volume
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Tan granular, free flowing powder	Up to 400°F (204°C) BHST	10 to 25 lb/bbl (28.5 to 71.3 kg/m3)	70% 0.8-0.9, 30% 1.0-1.3	33.09 lb/ft3 530 kg/m3	0.0799 gal/b (0.6671 L/kg)
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