

Liquid Casing **COARSE**

Noninvasive Loss Circulation Material (LCM) for Severe Loss Circulation



Overview

A severe loss circulation material (LCM) and noninvasive fluid additive (NIF) with a bulk particle size concentration designed to cure the most severe loss circulation without altering the rheology of the mud while also promoting wellbore stability.

Unlike Liquid Casing® Fine, Liquid Casing® Coarse is used to "cure" losses in the form of a "pill", as opposed to preventing losses by being added to the general circulation. The material passes through a ¼" (6,350 microns) dry screen and will not block the jets of the bits or mud motors. It is non-damaging and can be pumped through most sizes of bit nozzles without blocking. Liquid Casing® Coarse has an increased particle size distribution compared to Liquid Casing® Fine. As a result, it interlocks and swells in the fluids to form an effective surface plug and non-damaging seal that increases in efficiency as differential pressures rise, allowing it to cure severe losses when encountered.

Safety & Handling

Refer to the safety data sheets (SDS) for handling, transport, environmental and first aid information by contacting 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 large fractures
- 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
- Prevents seepage loss
- Virtually eliminates damage to formation
- Compatible in OBM, WBM and SBW
- Approved for use in North Sea
- 100% Biodegradable and nontoxic

Lost Circulation Application

- Mix 15 ppb LC Coarse with 15 ppb LC Fine and 15 ppb Bentonite

Cement Application

- Mix 10 ppb LC Coarse with 20 ppb LC Cure, plus 2 ppb HEC Polymer

Workover Application

- Mix 15 ppb LC Coarse with 15 ppb LC Cure, plus 2 ppb XC Polymer

| Appearance | Typical temp. range | Typical concentration | Specific Gravity | Bulk Density | Absolute volume |
|-----------------------------------|--------------------------|--------------------------------------|------------------|--------------------------|----------------------------|
| Tan granular, free flowing powder | Up to 400°F (204°C) BHST | 10 to 25 lb/bbl (28.5 to 71.3 kg/m3) | 1.4-1.5 | 33.09 lb/ft3 (530 kg/m3) | 0.0799 gal/b (0.6671 L/kg) |