IDCCHEM

Bio-LCM

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Biodegradable, Environmentally Friendly, Loss Circulation Material (up to 8mm fracture)

APPLICATION

- Designed to cure induced losses during cementing operations after running the casing/liner.
- Designed for fragile, unconsolidated and fractured formations.
- Suitable for induced fractured formations (2-8 mm).
- Suitable for pumping through drilling assembly and casing accessories (7" liner job only with Bio-LCM-2).
- Production enhancement through eliminating work over for pay zone.
- Temporary sealing: 100% natural degradation.

ADVANTAGES

- Reduced need for cleanup operations: 100% naturally degrades over time.
- Improves the integrity of cement-formation bond: Supports better mud removal and wall cleaning before cementing.
- Reduces the need for remedial cementing: Prevents cement fallback to achieve the desired TOC.
- Eco-friendly: Safer for marine and terrestrial life by reducing environmental impact
- Reduces cement losses and formation damage.
- Easy to mix and pump.

PRODUCT SPECIFICATIONS

Biodegradable lost circulation materials offer multiple advantages in oilfield applications, especially in terms of sustainability, environmental protection, and regulatory compliance. Their ability to provide effective fluid loss control while breaking down naturally over time makes them a strong alternative to traditional, non-biodegradable LCMs. They contribute to a cleaner and safer environment, reduce the need for costly cleanup operations, and help maintain the long-term integrity of the well and reservoir. With increasing environmental scrutiny, the use of biodegradable LCMs can also enhance a company's public image and improve stakeholder relationships.

PHYSICAL AND CHEMICAL PROPERTIES

Product	Physical Status	Job	Fracture size	Curing ability
Bio-LCM-2	Solid	Liner	Up to 2 mm	Seepage/minor losses
Bio-LCM-4	Solid	Casing	Up to 4 mm	Minor to partial losses
Bio-LCM-6	Solid	Casing	Up to 6 mm	Partial to severe losses
Bio-LCM-8	Solid	Casing	Up to 8 mm	Severe losses

HANDLING AND STORAGE

Bio-LCM should be stored in a dry environment.
Proper PPE must be used to avoid dust exposure.
Packed in 25 lbs bags.

PROCEDURE

Pump simultaneously with spacer.

TREATMENT RECOMMENDATIONS

For seepage losses recommended treatment ranges from 15 – 20 lb/bbl.
No limitations on temperature range.