

## PRODUCT BULLETIN

# NO BULL® LCM LOST CIRCULATION MATERIAL



## PRODUCT DESCRIPTION

NO BULL® LCM is a blend of thermally processed, lightweight, 100% organic lignin and cellulose plant fibers recycled from dairy cow manure that interweave and plug fractures and voids immediately. Compatible with water or oil-based drilling fluids, NO BULL® LCM is proven to be a superior sealant in down-hole applications as well as extremely cost effective...a little goes a long way!

\*Not recommended for absorbing strong oxidizing agents, strong acids or caustics.

\*\* 7-to-1 claim on weight to weight absorption of water. Fluids and absorbency rates vary by product & application. Rates listed should be treated as approximations.

## BENEFITS

- ◆ PROVEN TO STOP MUD LOSS IMMEDIATELY
- ◆ HIGHLY COST EFFECTIVE
- ◆ USDA CERTIFIED BIOBASED PRODUCT 100%
- ◆ FOR ALL TYPES OF DRILLING FLUIDS
- ◆ 7X OIL ABSORPTION
- ◆ 100% BIODEGRADABLE
- ◆ EXPANDS 1.5 TIMES ITS ORIGINAL DRY SIZE
- ◆ STABLE IN HIGH-TEMP APPLICATIONS
- ◆ EASILY MIXES WITH ALL KINDS OF MUDS
- ◆ CONSISTENT QUALITY FROM BAG TO BAG
- ◆ SILICA-FREE
- ◆ MADE IN THE USA

## SUSTAINABLE

- ◆ NOT HARMFUL TO THE ENVIRONMENT
- ◆ PRODUCTION OF LCM DOES NOT DEplete NATURAL RESOURCES
- ◆ 100% RECYCLED FROM VIRTUALLY UNLIMITED SOURCES

## APPLICATION

Typically mixed at 2 lbs per barrel of mud, NO BULL® LCM is highly cost effective compared to other LCM products, organic or synthetic.

Manufactured by NO-BULL®  
A Division of NCS, Inc.

130 Industrial Dr. Chambersburg, PA 17201  
717-261-5711 [www.nobullsupply.com](http://www.nobullsupply.com)

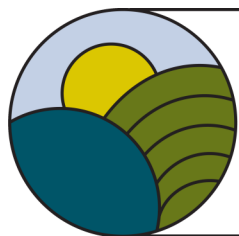


# SPECIFICATION & PACKAGING

# NO BULL®

# LCM

## LOST CIRCULATION MATERIAL



**USDA  
CERTIFIED  
BIOBASED  
PRODUCT**  
PRODUCT 100%

## HANDLING AND STORAGE

Store in cool, dry well-ventilated area away from ignition sources and strong oxidizing agents. Please review the Safety Data Sheet thoroughly before using this product under resources at [www.nobullsupply.com](http://www.nobullsupply.com).

## TYPICAL PHYSICAL PROPERTIES

Appearance..... Brown, fibrous material  
Specific Gravity..... 0.16  
Water Solubility..... minimal  
Bulk Density..... 10 lb / ft<sup>3</sup>  
Acid Solubility..... 65% soluble in 15% Hydrochloric acid  
Moisture .....10%

## PARTICLE SIZE DISTRIBUTION

Retained on 10 Mesh	19.6%
Retained on 20 Mesh	20.6%
Retained on 40 Mesh	24.9%
Retained on 60 Mesh	17.8%
Retained on 80 Mesh	5.9%
Passing 80 Mesh	9.1%

## PACKAGING

No-Bull® LCM is available in UV resistant 10 lb bags with a waterproof UV resistant hood via full truck loads or by the pallet.

Shrink-wrapped pallet: 66 bags

Full truckload: 1,716 bags

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