

RD-220™

LCM Blend for Extreme Losses

Oil & Gas Drilling Fluids / OBM & WBM



RD-220 is a freely flowing multi-component blend prepared for combating lost circulation in drilling fluids. **RD-220** is effective in a range of fracture plugging and is used as a maintenance treatment and higher addition rates when significant mud loss occurs. **RD-220** can be used for all invert fluids, including synthetics and in fresh and saltwater mud.

PROPERTIES TYPICAL

Appearance..... Gray Powder and Fibers
Density (lb/ft³)..... 54 Avg (44 Uncompacted /64 Compacted)
Flash Point..... < 200° F (COC)

APPLICATION

- 2-10 ppb As preventative maintenance lost circulation material in drilling fluids
- 15 – 30 ppb as slug treatment

ADVANTAGES

- Can reduce the initiation of fracture formation specially in depleted sands
- No adverse effect on rheological or filtration control properties
- Does not plug drilling equipment
- Not classified as hazardous material

TREATMENT RATE

- Pre-treat with 2 – 10 ppb in the system as you drill
- Use 2 to 4 ppb for maintenance
- For partial losses send slugs of 10 to 20 ppb
- For complete losses prepare a 20 to 30 ppb sludge pill

** NOTE **

Always pilot test before adding the product so the allow amount of product would be added.

PACKAGING

25 Lbs Bags (40 Bags / Pallet)

PRESSURE PLUGGING TEST RESULTS

The following tables are the results of the **RD-220** PPT Evaluation:

Oil Base Mud
275.8 ml Diesel
6 grams Emulsifier
3.9 grams Lime
3.9 grams Organophilic Clay
60.2 ml Calcium Chloride Brine 10.8 ppg
691 grams Barite
15 grams LCM Additive (RD-220)

55 µm (60 µm old air porosity measurement) Ceramic Disks	PPT, Spurt	PPT Fluid Loss, ml
Oil Base Mud, 16 ppg diesel based	13	41
15 lb/bbl RD-220	14	27
120 µm (90 µm old air porosity measurement) Ceramic Disks	PPT, Spurt	PPT Fluid Loss, ml
Oil Base Mud	14	36
15 lb/bbl RD-220	12.5	28.5

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