**Diaseal M® Lost Circulation Material**

Diaseal M® LCM is a highly effective, high-solids, high-fluid-loss lost circulation squeeze material. A solid plug is formed in the thief formation when water or oil is squeezed from the slurry. Diaseal M® LCM creates a seal in the loss zone, not in the wellbore like conventional LCM. The seal cannot be easily disrupted by circulation or drill pipe movement.

Drilling Specialties’ experienced personnel can help you design a Diaseal M® LCM squeeze to fit your particular application. Diaseal M® LCM has been used successfully since 1964 on thousands of wells combating lost circulation throughout the world. Diaseal M® LCM is highly effective in both water-based and oil-based mud applications. Diaseal M® LCM may also be mixed with cement to gain a small amount of compressive strength, adding to the longevity of the squeeze. Make Diaseal M® LCM your first line of defense in solving lost circulation problems.

**Advantages**

- Very dependable and easy solution to lost circulation problems.
- Does not require bypassing of most solids control equipment
- Does not contaminate drilling mud
- No risk of cementing up the drill pipe
- No risk of sidetracking hole as with cement squeezes
- Use instead of conventional LCM’s
- May be blended with additional LCM’s on location to form a custom squeeze unique to the lost circulation problem facing the operator
- May be used in both water base and oil based muds

**Cost**

Less than the cost for building new mud volume in most instances. Rig time spent on lost circulation problem is usually reduced. An extremely cost-effective material and procedure for remedying lost circulation.

**Mud Types**

All know water-based and oil-based muds

**Mixing Requirements**

Clean mixing tank at rig or liquid mud plant. Cement company pump truck may be needed for low-volume pump rates. When oil is used and weighted with barite, an oil-wetting agent is needed to promote oil wetting and dispersion of barite. Otherwise, extremely high viscosity may develop. Generally, 0.5 ppb oil-wetting agent is plenty.

**Handling**

For specific instructions refer to MSDS information or as illustrated on product containers

**Packaging**

40-pound multilayered paper sacks (40 bags to a pallet)

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### Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Material Needed</th>
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<tbody>
<tr>
<td>Open hole lost circulation squeeze when open hole volume is 50 bbls or less</td>
<td>Mix specified amounts of water or oil, Diaseal M® LCM, barite and LCM for 100 bbl of Diaseal M® LCM liquid volume</td>
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<tr>
<td>Open hole lost circulation squeeze when open hole volume exceeds 50 bbls</td>
<td>Mix specified amounts of water or oil, Diaseal M® LCM, barite and LCM for 100 bbl of Diaseal M® LCM for an amount of slurry equal to twice the open hole volume (if practical)</td>
</tr>
<tr>
<td>Lost circulation squeeze through perforations</td>
<td>Mix specified amounts of water or oil, Diaseal M® LCM, barite and LCM for 100 bbl of Diaseal M® LCM for 50-100 bbl of slurry volume.</td>
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</table>

**Additional Information**

Follow recommended mixing, displacing and squeezing procedures for best results

*For additional information see the “Lost Circulation Guide” or “The Engineered Lost Circulation Materials” of Drilling Specialties*