MACRO-FILL
ACID SOLUBLE LCM AND SWEEP MATERIAL

DESCRIPTION
MACRO-FILL is a granular, advanced super-absorbent material that rapidly absorbs and retains large volumes of water from aqueous solutions. MACRO-FILL may absorb up to 300 times its weight in freshwater while expanding less than 5% in total volume.

RECOMMENDED USE
MACRO-FILL is ideally suited for solidification and stabilization of drilling fluids, wastewater, and sludge. MACRO-FILL is also a superior loss circulation material.

CHARACTERISTICS
- Absorbs 300 times its own weight in water
- Can be added directly into drilling fluid
- Can be used with other lost circulation materials
- Expands approximately 5% in volume with maximum absorption
- Seals large and fine fractures and highly permeable and porous formations
- Will not harm pumping equipment

MIXING AND APPLICATION

<table>
<thead>
<tr>
<th>Solidification Aid</th>
<th>Add 4-5 lbs (1.8-2.3 kg) per 100 gallons (378 liters) liquid</th>
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<tbody>
<tr>
<td>Loss Circulation</td>
<td>Pre-mix 8-12 lbs (3.6-5.4 kg) in thinned fluid on surface and pump quickly to discrete depth via tremie pipe. Allow time for MACRO-FILL to expand before proceeding with drilling.</td>
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PACKAGING
14 lb pail, 48 per pallet. All pallets are plastic-wrapped.

UPDATED: MAY 2018