HYDRO-PAC™
SALT TOLERANT BIODEGRADABLE DRILLING SUPPORT FLUID

DESCRIPTION
HYDRO-PAC is a dry hybrid-polymer drilling fluid. HYDRO-PAC is an innovative breakthrough in drilling fluids and containment fluids due to its ability to use saltwater as the hydrating mix water.

RECOMMENDED USE
HYDRO-PAC is the product of choice for drilling horizontal desalination wells, tie-backs, and mini-piles and is engineered for use in slurry cutoff walls and tunneling drilling operations where exposure to contaminants or seawater is expected. Produced from dry free flowing polymers, HYDRO-PAC provides exceptional bore hole stability and cuttings removal in a wide range of ground conditions.

CHARACTERISTICS
• Hydrates easily in seawater, brackish water, or freshwater
• Exceptional fluid loss control minimizes formation sloughing in tie-backs and mini-piles
• When installing tie-backs controls the water flow and keeps bore hole open stopping flowing sands from entering
• Minimizes formation damage, maximizes production rates
• Effective in all ground conditions (one bag drilling fluid)
• Can be cleaned down through regular de-sanders
• Fast and efficient mixing in freshwater and saltwater

BENEFITS
• Stable while drilling and recycles
• 4.4 lbs (2 kg) of HYDRO-PAC = Viscosity of 132 lbs or 60 of civil grade 90 bbl bentonite or 25 kg of high yield 220 bbl bentonite
• Naturally biodegrades (stabilizer can be added to retard biodegradation)
• Low cost slurry disposal. Destroy or biodegrade the HYDRO-PAC polymer to settle out drilled cuttings in a settlement pit

MIXING AND APPLICATION

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<thead>
<tr>
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<th>lbs/100 Gal</th>
<th>kg/m³</th>
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<tbody>
<tr>
<td>Consolidated Formation (Clay/Shale)</td>
<td>1.67-3.4</td>
<td>2-4</td>
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<tr>
<td>Unconsolidated Formation (Sand/Gravel)</td>
<td>2.51-5.85</td>
<td>3-7</td>
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PACKAGING:
~50 lb (22.7 kg) heavy wall poly bags, 45 per pallet. All pallets are plastic-wrapped.

UPDATED: APRIL 2020