**OVERVIEW**

The Swellpacker® Slip-On isolation system provides effective zonal isolation with slip-on convenience. This modular design can slide onto any nonupset casing or tubing string. Therefore, these packers do not require basepipe supplied upfront during the manufacturing process and can be easily installed at the rig site. This allows for storing and stocking of the tools, simplifying logistics, and reducing costs significantly. This pioneering slip-on packer also features a full-length internal seal. This helps ensure the Swellpacker Slip-On system provides an effective seal to the borehole ID and against the pipe, unlike other slip-on designs that rely on o-rings that can be easily cut when installed on the basepipe.

Like bonded-to-pipe Swellpacker systems, once deployed, the rubber element retains its flexibility, allowing the Swellpacker Slip-On system to adapt to formation shifts over time to maintain seal integrity. Its self-healing properties make it a truly innovative technology for all zonal isolation applications, whether in cased or openhole environments. In some openhole applications, operators might be able to avoid cementing and perforating altogether, thus reducing the costs associated with these operations.

**FEATURES**

» Suitable for cased and open holes
» Install on any non-upset basepipe
» Robust construction
» No moving parts
» Self-healing, interventionless technology
» Can be run in most all fluid environments
» Multiple polymers available: oil-swelling, water-swelling, and hybrid-swelling solutions
» Engineered swelling delay system
» Can swell in as little as 2% activation fluid

**BENEFITS**

» No specialist operator required for installation
» Casing integrity is maintained
» Simplified logistics
» Allows last minute adjustments to placement
» Ideal for irregular borehole geometry
» Protect sand screens from plugging
» Alternative solution to cementing and perforating
» Helps reduce operational risk
» Isolates producing zones more effectively
» Helps reduce well costs and rig time

**APPLICATIONS**

» Open and cased hole isolations
» Stimulation placement
» Open and cased hole straddles
» Water control
» Multilaterals
» Standalone screen sand control
» Compartmentalization for screen/ICD completions
» Gravel packer isolation
» Well construction
## Swellpacker® Slip-on Isolation System Technical Specifications

<table>
<thead>
<tr>
<th>Operating Condition</th>
<th>Oil-Swelling (OS) Technical Specifications</th>
<th>Water-Swelling (WS) Technical Specifications</th>
<th>Hybrid Swelling (HS) Technical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run in hole fluid: oil-based mud (OBM)</td>
<td>Design to suit applications</td>
<td>Does not swell in hydrocarbons</td>
<td>Design to suit applications</td>
</tr>
<tr>
<td>Run in hole fluid: water-based mud (WBM)</td>
<td>All fluid systems</td>
<td>Design to suit applications</td>
<td>Design to suit applications</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>32 - 392°F (0 - 200°C)</td>
<td>32 to 392°F (0 to 200°C)</td>
<td>OS: 32 - 392°F (0 - 200°C) WS: 266 - 392°F (130 - 200°C)</td>
</tr>
<tr>
<td>Reservoir Fluid: Liquid Hydrocarbon</td>
<td>Wide range of crude oil tested; swelling rate is a function of fluid viscosity</td>
<td>Does not swell in hydrocarbons</td>
<td>Wide range of crude oil tested; swelling rate is a function of fluid viscosity</td>
</tr>
<tr>
<td>Reservoir Fluid: Oil with High Water Cut</td>
<td>Swells in traces of hydrocarbon fluid</td>
<td>All fluid systems; swelling depends on temperature and salinity</td>
<td>Swells in traces of hydrocarbon fluid; WS depends on temperature and salinity</td>
</tr>
<tr>
<td>Reservoir Fluid: Water</td>
<td>Does not swell</td>
<td>Wide range of fresh &amp; saline water tested</td>
<td>Wide range of fresh &amp; saline water tested</td>
</tr>
<tr>
<td>Reservoir Fluid: Gas Condensate</td>
<td>Swells in traces of hydrocarbon fluid</td>
<td>Requires contact with water based fluid for permanent seal</td>
<td>Swells in traces of hydrocarbon fluid</td>
</tr>
<tr>
<td>Differential Pressure Capability</td>
<td>Up to 3,500 psi (per 1-m element)</td>
<td>Up to 3,500 psi (per 1-m element)</td>
<td>Up to 3,500 psi (per 1-m element)</td>
</tr>
<tr>
<td>Time to Set</td>
<td>Varies based on designs and well conditions. Can be engineered for swelling delays of 1-20 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>Common oilfield chemicals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Element Length</td>
<td>Standard lengths of 0.3, 0.5, 1, or 1.5 m Stacked lengths of 1, 2, or 3 m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Salinity and temperature affect swell time for WS and HS
- Contact Halliburton for design simulations (pressure rating, time) and custom lengths

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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