Swellpacker® Slip-On Isolation System

FOR EFFECTIVE ZONAL ISOLATION

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

Swellpacker® Slip-On System after installation on basepipe

Swellpacker® Slip-on Isolation System Technical Specifications

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

-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

HALLIBURTON