

ResPack Slip

Swellable slip-on packer

APPLICATIONS

- Openhole and cased hole wells
- Long-term isolation
- Effective reservoir compartmentalization
- Inflow control device completions
- Straddle assemblies
- Gravel-pack assemblies
- Multistage matrix acidizing

BENEFITS

- Single-trip installation minimizes rig time, installation risks, and costs.
- Modular design reduces and simplifies required inventory of metal and thread types, thereby saving costs.

FEATURES

- Engineered delay mechanism, which eliminates need for external delay coatings
- Modular slip-on design with no moving parts
- Simple installation requiring no specialist personnel or equipment
- Associated predictor software for product selection and job planning

The ResPack Slip* swellable slip-on packer is designed to swell on contact with oil and expand to seal the annulus around the pipe in both openhole and cased hole wells. It is designed to be slipped onto the completion tubular and anchored with locking gauge rings. The packer has no moving parts and is installed in a single trip; no special personnel or equipment is required. Applications range from well construction to completion.

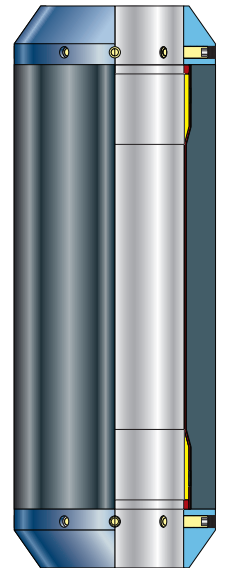
Modular assembly

The modular ResPack Slip packer assembly enables operators to stock only one product for each completion size. It is available with a single element for applications requiring inflow control devices and with spaced elements for increased wellbore contact.

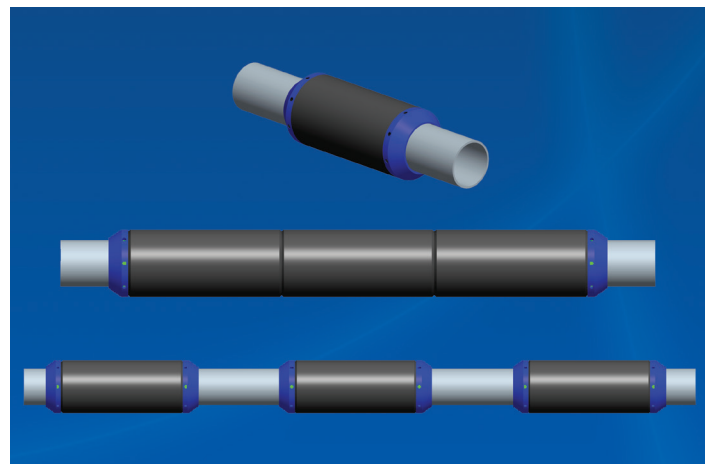
Swelling mechanism

The packer element is engineered from a complex polymer with properties similar to those of rubber; after swelling, however, the polymer's mechanical properties make it better suited for coping with high-pressure applications and sealing in flowing wells, though it remains pliant enough to control washouts and to seal in irregular wellbores.

An integral delay mechanism engineered into the polymer of the oil-swellable packer minimizes the risk of premature swelling and setting without the need for any additional exterior coating. Hydrocarbon molecules diffuse into the elastomer matrix to generate volumetric expansion.



ResPack Slip swellable slip-on packer.



The ResPack Slip packer's modular design, which includes options for (top to bottom) single, stacked, and spaced elements, enables operators to stock only one product for each completion size.

ResPack Slip

Sizes and ratings

ResPack Slip packers are provided in sizes ranging from 3½ to 7 in [88.9 to 177.8 mm]. They have a wide temperature range, from 100 to 365 degF [37 to 185 degC] and a differential pressure rating of up to 3,000 psi [20.7 MPa].

Swelling to first seal

Swelling starts immediately after contact with oil and progresses in small increments, enabling the packer to reach the target setting depth, where it continues to swell and seal.

Stringent qualifications

Our packers undergo full-scale highly accelerated life cycle testing and are qualified to rigorous standards. Elastomers are tested in high concentrations of hydrogen sulfide (H₂S), hydrochloric acid (HCl), and carbon dioxide (CO₂) at simulated downhole temperatures and pressures.

Swell-prediction software

Proprietary Schlumberger software is used to evaluate packer performance in various well environments. The software predicts the estimated swell time and pressure ratings for a certain hole ID. The results are used to select the appropriate packer and minimize risks during deployment.

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