

# SwageSeal Liner-Top Packer

Provides gas-tight liner-top integrity in challenging cemented-liner applications

## Applications

- Cemented and uncemented liner applications
- Liner hangers with integrated liner packers
- High-pressure, high-temperature applications within the specified range
- Gas- and fluid-tight applications
- High-angle, horizontal, or extended-reach geometries
- Corrosive-environment wells

## Features and Benefits

- The packer element is bonded to an expandable steel ring to create a reliable seal that prevents gas migration.
- Patented swage technology forms an anti-extrusion barrier between the packer body OD and host casing ID.
- Aflas<sup>®</sup> elastomers provide reliability in high-temperature and corrosive environments.
- The packer design is highly resistant to swab-off, which enables high circulation rates past the liner-top packer assembly. This circulation aids the removal of debris during well cleaning for improved cement quality.
- The high-torque, one-piece mandrel is equipped with a premium connection that provides superior pressure integrity.
- The integral body-lock ring permanently locks the applied setting force into the element to ensure the packer does not unset.
- The liner-top packer has a profile that accepts the Weatherford WRSM retrievable cement packoff. The packer also has a profile for a type R, S, or HNG running tool.
- The high-torque, threaded connection makes up to the connection on the SwageSet tieback polished bore receptacle (PBR) to form a hydrostatically locked chamber that prevents backoff during vigorous liner rotation.
- The mechanical locking mechanism prevents premature setting and reduces associated nonproductive time. It is available in certain sizes that use the R running tool.
- The XYLAN<sup>®</sup>-coated cone reduces the setting force required to energize the packer element.
- The streamlined design eliminates hold-down slips and associated components for reliability at a reduced cost.



The SwageSeal liner-top packer has a streamlined design that eliminates hold-down slips and associated components.

# SwageSeal Liner-Top Packer

## Tool Description

The Weatherford SwageSeal liner-top packer provides a reliable, high-integrity seal that isolates the annulus between the liner OD and the host casing ID. Run as an integral part of the liner-hanger assembly, the SwageSeal packer prevents gas migration while the cement sets.

The SwageSeal liner-top packer meets the strictest sealing requirements specified by International Organization for Standardization (ISO) 14310 grade V0 and American Petroleum Institute (API) 11D1 test criteria. The standard packer rating is 12,500 psi (86.2 MPa) at 400°F (204°C).

The SwageSeal packer builds on the success of the field-proven Weatherford SwageSet packer. Like its predecessor, the SwageSeal packer includes proprietary swage technology that serves as an annular pressure barrier at the liner top and consists of ridge-shaped Aflas elastomers bonded to an expandable metal ring.

The thick, one-piece mandrel is equipped with an integral premium box connection, which includes a sealbore for the WRSM retrievable cementing packoff and a profile for the appropriate running tool.

Once the hanger is set and the running tool is released, the packer is activated by applying weight from the packer actuator on the SwageSet tieback PBR. Set-down weight transferred through the PBR to the packer shears screws and sets the element. The body-lock ring permanently locks the setting force within the element to ensure the packer does not unset.

## Options

- The SwageSeal liner-top packer is available with a profile for an R, S, or HNG running tool.
- Standard metallurgies are L-80 and P-110 (125 ksi).

## Specifications

For more information, contact an authorized Weatherford representative.

