



NEMISIS® Annulus Swellable Packer

For Completion Applications

Weatherford's *NEMISIS* series of ASP® annulus swellable packers include proprietary high-strength elastomers and extrusion-eliminating backup systems. The patented anti-extrusion system is self-actuated by the swellable element and extends to the full swell range, producing elements that maintain high-differential-pressure operations in over-gauge hole sizes while also offering thermal stability in well applications that may experience downhole temperature changes.

Similar in form and function to Weatherford's *GENISIS*® series packers, *NEMISIS* packers have shorter, slimmer elements that aid deployment efficiency and minimize the risk of sticking while running through high-dogleg well intervals.

Applications

- Interzonal isolation
- Gas- and water-coning management
- Reservoir compartmentalization and wellbore segmentation
- Isolation of fluid contacts
- Straddle isolation systems (shales, fractures, water)
- Isolation control in stimulation and/or fracturing jobs
- Plugging and abandoning
- Isolation of build sections from horizontal pay zones
- Casing-shoe integrity/sustained casing pressure isolation
- Isolation at lateral junctions or milled windows

Features, Advantages and Benefits

- No moving parts allows for easy deployment, reducing well construction costs and rig personnel.
- Bonded swellable elastomer element is activated through contact with wellbore fluids, increasing the OD and progressively sealing off the annulus, enabling reseal capability for the life of the well.
- Swellable element activates through contact with wellbore fluids, sealing off the annulus and enabling reseal capability for the life of the well.
- Conforming element enables isolation in irregular hole shapes and changing annular geometries.





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Features, Advantages and Benefits (continued)

- Shorter, slimmer design minimizes the potential for sticking while providing a higher pressure differential for enhanced operational efficiency.
- Available in most tubular configurations and thread connections, the *NEMISIS* packer easily integrates with most well tubular designs.
- Solid-metal gauge ring functions as a radial standoff device that protects the swelling element during installation.

Specifications

Length (ft/m)	5.0 1.5	10 3.0
Maximum differential pressure (psi/MPa)	5,000 34.474	7,500 51.710
Maximum operating temperature (°F/°C)	300° 150°	
Swell ratio	Customizable	
Setting time	Customizable	
Activation fluid	Aqueous, hydrocarbon, or both	

Hole Size* (in./mm)	Mandrel (in./mm)	Standard Element OD (in./mm)
4-3/4 120.65	2-7/8 73.03	4.400 111.76
	3-1/2 88.90	
6 152.40	3-1/2 88.90	5.650 143.51
	4-1/2 114.30	
6-1/8 155.58	3-1/2 88.90	5.750 146.05
	4-1/2 114.30	
6-1/2 165.10	4-1/2 114.30	6.150 156.21
	5 127.00	
8-1/2 215.90	4-1/2 114.30	8.150 207.01
	5-1/2 139.70	
	6-5/8 168.30	
	7 177.80	
12-1/4 311.15	9-5/8 244.48	11.900 302.26

For internal use:

Link to Endeca assembly part numbers: [Nemisis Annulus Swellable Packer](#)

*Additional sizes are available upon request.