

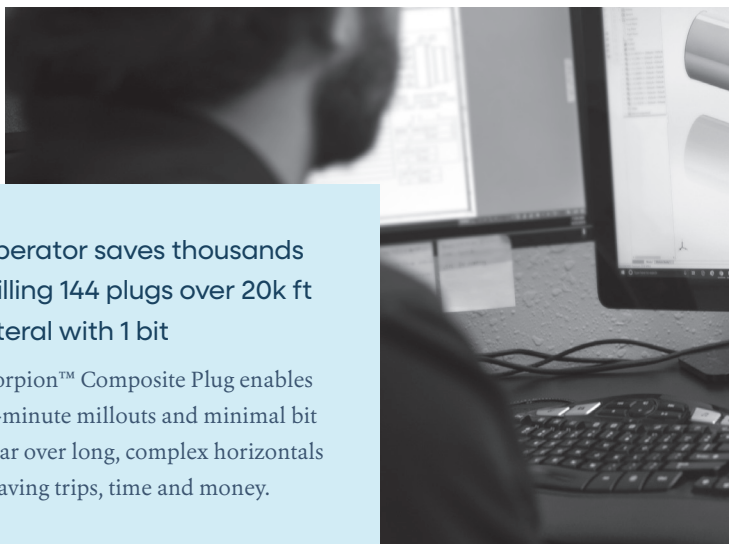
SCORPION™ COMPOSITE PLUG

Speed up your plug mill-out times and sprint toward well profitability

Scorpion™ Composite Plugs are made from thermo set molded composite and filament-wound fiberglass and are significantly shorter than typical frac plugs. You get reliable zonal isolation from the deepest toe stages of long lateral wells to the heel. Then, when it's time for mill-out, you're able to move faster, save operational costs and advance your well plan to the next stage.

Features

- Wellbore Zonal Isolation
- Reduced Milling Time
- No Metallic Material
- Segmented backup rings
- Ceramic gripping buttons
- Pumpdown ring available
- Compatible with 1.75" OD – 2.375" OD frac balls
- 50% faster mill-out than common plugs
- Molded and filament wound composite material for optimized performance
- Single elastomer element, compression-energized



Operator saves thousands milling 144 plugs over 20k ft lateral with 1 bit

Scorpion™ Composite Plug enables 10-minute millouts and minimal bit wear over long, complex horizontals – saving trips, time and money.



The Scorpion™ gets reliable zonal isolation from the deepest toe stages of long lateral wells to the heel.

CASING SPECS					PLUG SPECS							
O.D. inch (mm)	Weight Range lb/ft (kg/m)	Min. I.D. inch (mm)	Max. I.D. inch (mm)	Max. Conveyance O.D. inch (mm)	Max. PDR O.D. inch (mm)	Compressed PDR O.D. inch(mm)*	I.D. inch (mm)	Length inch (mm)	Ball Size inch (mm)	Pressure Rating psi (Mpa)	Configuration	Features
3-1/2 (88.9)	9.2-10.2 (13.7-15.2)	2.92 (74.2)	2.99 (76.0)	2.71 (68.8)	N/A	N/A	0.75 (19.1)	15.6 (396.2)	1.75 (44.5)	10,000 (69)	Ball Drop	Full Composite, Ceramic Buttons
4 (101.6)	11.6 (17.3)	3.43 (87.1)	3.43 (87.1)	3.00 (76.2)	N/A	N/A	0.75 (19.1)	17.5 (444.5)	1.75 (44.5)	10,000 (69)	Ball Drop	Full Composite, Ceramic Buttons
	9.5 (14.1)	3.55 (90.2)	3.55 (90.2)	3.12 (79.2)	N/A	N/A	0.75 (19.1)	17.5 (444.5)	1.75 (44.5)	10,000 (69)	Ball Drop	Full Composite, Ceramic Buttons
4-1/2 (114.3)	13.5-15.1 (22.5)	3.83 (97.2)	3.92 (99.6)	3.45 (87.6)	3.78 (96.0)	3.56 (90.4)	1.00 (25.4)	19.8 (502.9)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place	Full Composite, Ceramic Buttons
	11.6-13.5 (14.1-20.1)	3.92 (99.6)	4.00 (101.6)	3.65 (92.7)	3.90 (99.1)	3.76 (95.5)	1.00 (25.4)	19.8 (502.9)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place	Full Composite, Ceramic Buttons
5 (127.0)	23.2 (34.5)	4.04 (102.6)	4.04 (102.6)	3.65 (92.7)	3.90 (99.1)	3.76 (95.5)	1.00 (25.4)	19.8 (502.9)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place	Full Composite, Ceramic Buttons
	18.0-23.2 (26.8-34.5)	4.04 (102.6)	4.28 (108.7)	3.78 (96.0)	4.03 (102.4)	3.89 (98.8)	1.00 (25.4)	22.5 (571.5)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place	Full Composite, Ceramic Buttons
	18.0 (26.8)	4.28 (108.7)	4.28 (108.7)	3.90 (99.1)	4.15 (105.4)	4.01 (101.9)	1.00 (25.4)	22.4 (569.0)	1.75 (44.5)	10,000 (69)	Ball Drop/ Ball in Place	Full Composite, Ceramic Buttons
5-1/2 (139.7)	20.0-26.8 (29.8-39.9)	4.50 (114.3)	4.78 (121.4)	4.18 (106.2)	4.31 (109.5)	4.29 (109.0)	1.00 (25.4)	21.2 (538.5)	2.38 (60.3)	10,000 (69)	Ball Drop/ Ball in Place/ Frac Dart	Full Composite, Ceramic Buttons
	20.0-23.0 (29.8-34.2)	4.67 (118.6)	4.78 (121.4)	4.37 (111.0)	4.62 (117.3)	4.48 (113.8)	1.00 (25.4)	21.1 (535.9)	2.38 (60.3)	10,000 (69)	Ball Drop/ Ball in Place/ Frac Dart	Full Composite, Ceramic Buttons
	17.0 (25.3)	4.89 (124.2)	4.89 (124.2)	4.47 (113.5)	4.62 (117.3)	4.58 (116.3)	1.00 (25.4)	21.30 (541.0)	2.38 (60.3)	10,000 (69)	Ball Drop/ Ball in Place/ Frac Dart	Full Composite, Ceramic Buttons
6 (152.4)	24.0 - 26.0 (35.7 - 38.7)	5.132 (130.35)	5.17 (131.32)	4.70 (119.38)	5.39 (136.9)	4.70 (119.38)	1.50 (38.1)	21.00 (533.4)	2.00 (50.8)	10,000 (69)	Ball Drop/ Ball in Place/ Frac Dart	Full Composite, Ceramic Buttons

*Under certain conditions, this value may not be the minimum value that the PDR could be compressed. Please contact Nine Energy Service technical support for tighter ID scenarios.

Casing Specs are according to API Tubing/Casing Dimension Chart Information.

This product may be covered by one or more patents or pending patent applications.

For recommended safe bypass rate parameters, please refer to the Completions Technologies page at nineenergyservice.com

For more information, and to find a representative near you, visit nineenergyservice.com