



FracGuard® Series Composite Plugs

The Weatherford FracGuard composite plug isolates a formation for fracturing operations in both single and multiple-zone plug and perf completions. The FracGuard composite plug is effective in highly deviated, horizontal, or vertical wellbores, where it enables efficient drill-outs using conventional drilling methods with tricone or junk-mill bits, including coiled tubing milling.

FracGuard composite plugs are available in 2 7/8-in. through 9 5/8-in. casing sizes and in top ball, internal ball, and bridge plug configurations. The top ball design provides a large flow area for communication below the plug while using a ball dropped from surface to seal off communication during fracturing operations. The internal ball design eliminates the need to pump a ball down and enables communication from below after fracturing operations. The bridge plug seals from above and below, and it can be used to isolate one zone or multiple zones after fracturing operations.

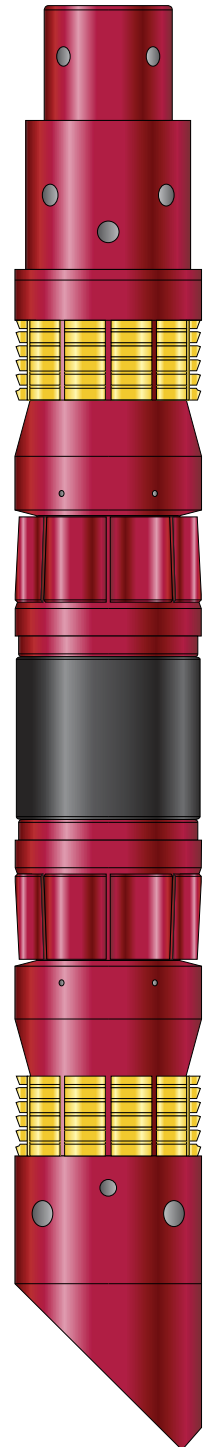
FracGuard plugs are rated at up to 350°F (176.67°C) and to 12,000 psi (827.37 Bar), which enables deploying the plug in multiple environments.

Applications

- Single or multiple-zone stimulation
- Vertical, deviated, horizontal, or multilateral wellbores

Features, Advantages, and Benefits

- Field proven design has been used in more than 70K runs.
- Element and backup system ensure a tight seal during fracturing operations.
- Full 360° cast iron slips allow full-casing-contact anchoring to withstand high fracturing pressures.
- The beveled bottom prevents the body from spinning, which decreases drill-out time of multiple plugs.
- Lightweight cuttings lift easily to circulate out to surface during drill out.



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Specifications

Casing		Maximum OD of tool (in., mm)	Temperature Rating (°F, °C)	Pressure Rating (psi, bar)	Setting Tool	FracGuard Options		
Size (in., mm)	Weight (lb/ft, kg/m)					Bridge Plug	Top Ball	Internal Ball
2 7/8 73.025	6.40 to 8.60 9.52 to 12.80	2.120 53.848	350 176.67	12,000 827.37	Baker #5 or Owen	Available ^a	Available	—
3 1/2 88.9	12.95 19.27	2.560 65.024	350 176.67	12,000 827.37	Baker #5 or Owen	Available ^a	—	Available
3 1/2 88.9	12.95 19.27	2.380 60.452	350 176.67	10,000 689.48	Baker #5 or Owen	Available ^b	Available	—
3 1/2 88.9	9.20 to 10.20 13.69 to 15.18	2.690 68.326	350 176.67	12,000 827.37	Baker #5 or Owen	Available ^a		Available
3 1/2 88.9	9.20 to 10.20 13.69 to 15.18	2.690 68.326	350 176.67	10,000 689.48	Baker #5 or Owen	—	Available	—
4 101.6	11.00 to 13.20 16.37 to 19.64	3.090 78.486	350 176.67	11,000 758.42	Baker #5 or Owen	Available ^c	Available	—
4 1/2 114.30	15.1 to 18.8 22.47 to 27.98	3.44 87.376	300 148.89	10,000 689.48	Baker #10 or Owen	Available ^b	Available	Available
4 1/2 114.30	15.1 to 18.8 22.47 to 27.98	3.44 87.376	350 176.67	12,000 827.37	Baker #10 or Owen	Available ^a	Available	Available
4 1/2 114.30	15.1 to 18.8 22.47 to 27.98	3.44 87.376	250 121.11	6,000 413.69	Baker #10 or Owen	Available	Available	Available
4 1/2 114.30	15.1 to 16.60 22.47 to 24.70	3.594 91.288	300 148.89	10,000 689.48	Baker #10 or Owen	Available ^b	Available	Available
4 1/2 114.30	15.1 to 16.60 22.47 to 24.70	3.594 91.288	350 176.67	12,000 827.37	Baker #10 or Owen	Available ^a	Available	Available
4 1/2 114.30	11.60 to 16.60 17.26 to 24.70	3.594 91.288	250 121.11	6,000 413.69	Baker #10 or Owen	Available	Available	Available
4 1/2 114.30	9.50 to 13.50 14.14 to 20.09	3.660 92.964	300 148.89	10,000 689.48	Baker #10 or Owen	Available ^b	Available	Available
4 1/2 114.30	9.50 to 13.50 14.14 to 20.09	3.660 92.964	350 176.67	12,000 827.37	Baker #10 or Owen	Available ^a	—	Available

^a12,000-psi (827.37-bar) rating from above; 10,000-psi (689.48-bar) rating from below

^b10,000-psi (689.48-bar) rating from above; 8,000-psi (551.58-bar) rating from below

^c11,000-psi (758.42-bar) rating above; 8,600-psi (592.95-bar) rating from below

^d10,000-psi (689.48-bar) rating from above; 10,000-psi (689.48-bar) rating from below

^e8,000-psi (551.58-bar) rating from above; 6,000-psi (413.69-bar) rating from below



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Size (in., mm)	Weight (lb/ft, kg/m)					Bridge Plug	Top Ball	Internal Ball
5 127.00	11.5 to 18.0 17.11 to 26.79	3.94 100.076	300 148.89	12,000 827.37	Baker #10 or Owen	Available ^a	—	—
5 127.00	11.5 to 18.0 17.11 to 26.79	3.94 100.076	350 176.67	10,000 689.48	Baker #10 or Owen	Available ^b	Available	—
5 127.00	11.5 to 18.0 17.11 to 26.79	3.94 100.076	300 148.89	10,000 689.48	Baker #10 or Owen	—	—	Available
5 1/2 139.70	15.5 to 23.0 23.07 to 34.23	4.38 111.252	350 176.67	12,000 827.37	Baker #20 or Owen	Available ^a	Available	Available
5 1/2 139.70	15.5 to 23.0 23.07 to 34.23	4.38 111.252	300 148.89	10,000 689.48	Baker #20 or Owen	Available ^b	Available	Available
5 1/2 139.70	15.5 to 23.0 23.07 to 34.23	4.38 111.252	250 121.11	10,000 689.48	Baker #20 or Owen		Available	
7 177.8	20 to 32 29.76 to 47.62	5.80 147.32	300 148.89	10,000 689.48	Baker #20 or Owen	Available ^b	Available	Available
7 177.8	20 to 32 29.76 to 47.62	5.80 147.32	350 176.67	10,000 689.48	Baker #20 or Owen	—	Available	—
7 5/8 193.675	26.40 to 42.80 39.29 to 63.69	6.20 157.48	300 148.89	8,000 551.58	Baker #20 or Owen	Available ^a	—	Available
9 5/8 244.475	36.00 to 53.50 53.57 to 79.62	8.250 209.55	300 148.89	8,000 551.58	Baker #20 or Owen	Available ^a	—	Available

^a12,000-psi (827.37-bar) rating from above; 10,000-psi (689.48-bar) rating from below

^b10,000-psi (689.48-bar) rating from above; 8,000-psi (551.58-bar) rating from below

^c11,000-psi (758.42-bar) rating above; 8,600-psi (592.95-bar) rating from below

^d10,000-psi (689.48-bar) rating from above; 10,000-psi (689.48-bar) rating from below

^e8,000-psi (551.58-bar) rating from above; 6,000-psi (413.69-bar) rating from below