



GENERAL PRODUCT SHEET

FastSwell® - Geometric Optimization for FREECAP® Swellable Packers

PRODUCT DESCRIPTION:

TAM's FastSwell® technology, part of the FREECAP® swellable packer product line, provides a fast, controlled swell time in slow swell conditions where conventional elastomers on the market underperform. Through continued product improvement TAM has developed the FastSwell system to enhance the swellable technology into heavy oil and to improve performance in the high salinity low temperature environment. The FastSwell system allows any of TAM's oil or water swellable elastomers to be used in all environments. This technology reduces production delays for well operators working in low bottom hole temperatures because FastSwell packers allow hydraulic fracturing operations and completion activities to commence faster than standard elastomer chemistry will allow. Like all TAM elastomers, this system does not rely on protective coatings to prevent premature swelling during the trip in the hole. Reliable prediction of swell times is designed into the numerous compounds and packer designs developed specifically for the various well environments found in global operations.

PROVIDES SOLUTIONS FOR:

- High-salinity and low-temperature applications
 - Zonal isolation
 - Flow diversion
 - Stimulation placement
 - Intelligent well completions
 - Water/gas shut off
 - Open and cased hole scab liners
 - Cement integrity
 - Selective production

FEATURES:

- Swellable Packer with faster swelling time, approximately 2.5 days with a 5-3/4 in. (146 mm) OD to seal in a 6-1/8 in. open hole with well conditions of 140°F (60°C) and 9.0 ppg 10% NaCl
** See swell chart on next page*
- Anti-extrusion end rings for FREECAP I and FREECAP II style packers
- Modular slide-on FREECAP II allows for last-minute placement flexibility
- Set in permeable formations, a long FREECAP (10 ft to 20 ft) seals more efficiently as it reduces bypass through the formation
- Variable seal lengths
- Provides effective sealing in irregular wellbore shapes or corroded casing

BENEFITS:

- Swellable packers provide a longer, more conformable seal in an irregular open hole than hydro-mechanical packers
- FastSwell elastomer allows for fracturing operations to begin much sooner than with conventional swell packers
- Reliable prediction of swell times
- 10,000 psi differential capability
- Good alternative to cementing and perforating
- Reduces rig time and construction costs



FREECAP I

FREECAP II



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COMMON TOOL SIZES:

Base Pipe OD		Element OD	
in.	mm	in.	mm
2.88	73.2	4.13 - 5.25	104.9 - 133.4
3.50	88.9	4.75 - 5.88	120.6 - 149.4
4.00	101.6	5.25 - 6.25	133.4 - 158.8
4.50	114.3	5.63 - 7.00	143 - 177.8
5.00	127	6.25 - 7.25	158.8 - 184.1
5.50	139.7	7.00 - 8.13	177.8 - 206.5
6.63	168.3	8.00 - 9.25	203.2 - 235
7.00	177.8	8.00 - 9.25	203.2 - 235
7.63	193.7	9.25 - 10.25	235 - 260.3
9.63	244.5	11.63 - 14.38	295.4 - 14.38

**More sizes available on request*

SWELL TIMES:

