



SF Ball

OVERVIEW

StackFRAC® (SF) Balls are used in Packers Plus multi-stage ball-activated stimulation systems to enable hydraulic activation of downhole tools and divert flow of fluids within a stage. There are a variety of SF Ball sizes, allowing activation of multiple tools in sequence.

A range of SF Balls are available in different materials and coatings depending on operational requirements:

- SF2 – ceramic polymer, specific gravity 1.3
- SF7 – epoxy composite, specific gravity 1.8
- SF10 – metallic composite, specific gravity 2.8

OPERATION

After multi-stage stimulation system installation, an SF Ball is inserted into the system and pumped down to a seat. This allows hydraulic pressure to build inside the system, which is used to activate tools and/or divert fluid along the system. Multiple tools can be activated by dropping successively larger SF Balls. After stimulation operations, the SF Balls can be flowed back or milled out, if desired.

APPLICATIONS

- Open and cased hole
- Horizontal and vertical wells
- HPHT and sour service
- Activation of downhole tools
- Diversion of fluid flow

FEATURES AND BENEFITS

- Available in a variety of sizes and materials
- Resistant to chemical attack
- Low specific gravity balls provide optimal flowback capability
- Balls can be quickly milled out if required