

ScaleFizz

Self-Agitating Sulfate Scale Dissolver

ScaleFizz is a proprietary, self-agitating, scale dissolver that effectively dissolves strontium, barium and calcium sulfate scale even in static downhole conditions.

Standard scale dissolvers are restricted by a kinetically sluggish process of displacing the cations. This results in a near static scale-fluid interface at the scale surface area in static conditions. The current methodologies to improve efficacy are application of mechanical agitation or heating the fluid.

Patent pending ScaleFizz incorporates gas generating reactants that are catalyzed by freshly produced divalent cations at the scale-fluid interface and discrete surfactants that are able to encapsulate the entrained gases in the form of micro- and nano-bubbles that migrate causing fluid movement.

This ready to use, high-performance product is designed to efficiently remove sulfate scale and has the unique ability to self-agitate dissolving industry leading amounts of barium sulfate at moderate temperatures. ScaleFizz can be applied to remove near wellbore and formation damage caused by sulfate scale as well as downhole tubing, equipment and pumps.



Fig 1. Micro bubbles being generated

Features

- High dissolution rate
- Low activation temperature
- Superior barium sulfate solubility
- In situ gas generator

Benefits

- Reasonable soak times
- Can be used in moderate temperature environments
- Dissolves industry leading quantity of barium sulfate
- Self agitates

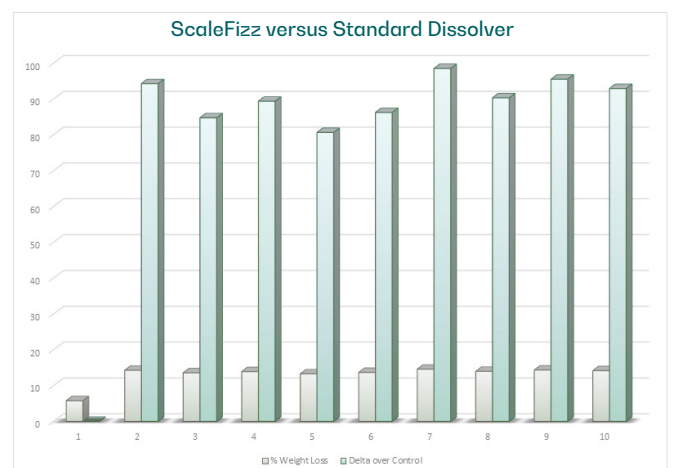


Fig 2. Impact on SrSO₄ Dissolution

Physical Properties

Appearance	Light yellow liquid
Specific Gravity	1.11
Freezing Point	25°C / -13°F
Flash Point	100°C / 212°F
pH:	10.5 - 11