

N-FLOW™ 408

FILTER CAKE BREAKER

Product Description

N-FLOW™ 408 filter cake breaker is a high temperature delayed acid generator that is used for the slow release of acid. When spotted down-hole N-FLOW 408 breaker reacts with water, generates acid and subsequently dissolves the calcium carbonate and cellulose in the filtercake removing fluid damage. N-FLOW breaker products can be placed across the entire interval before acid is generated improving overall clean-up. N-FLOW 408 breaker is suitable for use in most brines at temperatures from 194 – 265°F (90 – 130°C) to give break times of up to 16 hours.

Applications/Functions

- » Complete filtercake dissolution for openhole completions, particularly long horizontal intervals requiring accurate product placement before the onset of losses
- » When combined with an appropriate water-wetting surfactant such as BaraKlean-926 or BaraSurf-442, N-FLOW 408 can be applied to remove non-aqueous filtercakes

Advantages

- » With a 10 hour half life at 100°C, N-FLOW 408 filter cake breaker will be more effective at higher temperatures than N-FLOW 325 filter cake breaker
- » Initial action is slow, fluid can be placed across entire interval before reaction sets in
- » No enzymes are necessary
- » Less HSE concerns than for straight acid
- » Minimal corrosion risk
- » All components are environmentally acceptable
- » No special containers or vessels are required

Typical Properties

- | | | | |
|--------------------|------------------|---------------------------------|--------------|
| » Appearance | Colorless Liquid | » Vapor pressure, @ 68°F (20°C) | 2mm Hg |
| » Specific gravity | 1.042kg/L | » Flash point | 124°F (47°C) |
| » Boiling point | 338°F (154°C) | | |

Recommended Treatment

A typical concentration of N-FLOW 408 filter cake breaker is between 17% and 24% (v/v), but in general, the optimum concentration should be identified on a case-by-case basis taking into account conditions such as completion technique, hole diameter, etc.

Packaging

N-FLOW 408 filter cake breaker is packaged in 220-kg drums and 1000-kg IBC tanks

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