

# N-FLOW™ 325

## FILTER CAKE BREAKER

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### Product Description

N-FLOW™ 325 filter cake breaker is a delayed acid generator that is used for the slow release of acid. When spotted downhole N-FLOW 325 breaker reacts with water, generates acid and subsequently dissolves the calcium carbonate and polysaccharides 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 325 breaker is suitable for use in most brines at temperatures from 75 – 205°F (25 – 95°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
- » Low temperature applications can utilize BaraZyme W-1012 to assist in complete filtercake removal
- » When combined with an appropriate water-wetting surfactant such as BaraKlean-926 or BaraSurf-442, N-FLOW 325 can be applied to remove non-aqueous filtercakes

### Advantages

- » Initial action is slow, fluid can be placed across entire interval before reaction sets in
- » Less HSE concerns than for straight acid
- » Minimal corrosion risk
- » All components are environmentally acceptable
- » No special containers, vessels, or pumps are required

### Typical Properties

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|--------------------------|---------------------|
| » Appearance             | Light Yellow Liquid |
| » Specific gravity       | 1.2kg/L             |
| » Boiling point          | 510°F (240°C)       |
| » Vapor pressure, @ 20°C | 15mm Hg             |
| » Flash point            | 230°F (100°C)       |

### Recommended Treatment

A typical concentration of N-FLOW 325 filter cake breaker is between 10% and 20% (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 325 filter cake breaker is packaged in 210-kg drums and 1100-kg IBC tanks.

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