

N-FLOW™ 412

FILTER CAKE BREAKER

Product Description

N-FLOW™ 412 filter cake breaker is a delayed acid generator used for the slow release of acid. When spotted downhole N-FLOW 412 reacts with water, generates organic acid, and subsequently dissolves the calcium carbonate and starch in the filter cake. This breaker can be placed across the entire interval before acid is generated, improving overall clean-up. N-FLOW 412 breaker is suitable for use in most brines at temperatures 85 - 110°C (185 - 230°F).

Applications/Functions

- » Generates acid slowly over temperature range detailed above
- » Reacts with and dissolves calcium carbonate and polysaccharides in the filter cake

Advantages

- » Initial action is slow; the fluid can be placed across entire reservoir interval before reaction is complete
- » No enzymes are necessary
- » Less HSE concerns than for straight acid
- » Minimal corrosion risk
- » No special containers, vessels or pumps are required

Typical Properties

- » Appearance: Clear colorless liquid
- » Specific gravity: 1.09
- » Flash point: 49°C / 121°F

Recommended Treatment

A typical concentration of N-FLOW 412 filter cake breaker is 17 – 24% v/v but this should be optimized on a case-by-case basis taking into account conditions such as hole diameter.

Packaging

N-FLOW 412 is packaged in 55 gal drums and 1,000 litre IBC tanks.

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