

D208 ScavengerPlus

Scavenger slurry stabilizer

APPLICATIONS

- Slurries from 11 to 14.5 lbm/galUS
- Upper hole sections in temperature ranges from 50 to 185 degF [10 to 85 degC] BHCT
- Limited centralization or deviated sections where nonviscosified water-based fluids tend to channel
- Filler in casing-in-casing annuli or recovery of drilling fluids

ADVANTAGES

- Stable slurries—from mixing to beyond placement
- Improved rheological hierarchy for better mud displacement
- Enhanced zonal isolation and well integrity in upper hole sections
- Reduced footprint on location, which can reduce operational risks
- Flexibility in job design and execution

FEATURES

- Fast hydration agent
- On-the-fly mixing and slurry stabilization
- Yield stress uncoupled from slurry density
- Weighted fluid to meet density hierarchy and well control requirements

Scavenger cement slurries have traditionally been diluted lead cement systems, resulting in high settling tendencies, unpredictable downhole rheology, and compatibility problems with mud. In extreme cases, these issues can cause float equipment to be plugged off.

Zonal isolation and mud removal

D208 ScavengerPlus* scavenger slurry stabilizer is engineered to provide excellent rheological properties that improve slurry stability and fluid displacement in the annulus. It is a solid additive that exhibits remarkable solid-carrying characteristics, thanks to a rapid development of yield stress.

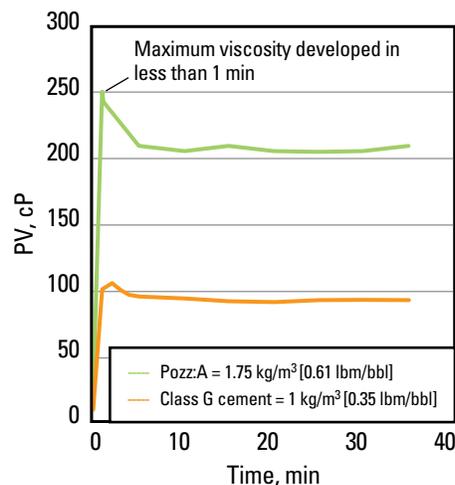
The system targets upper hole sections drilled with WBM, where traditionally either freshwater or no fluid is pumped ahead of the cement slurries. It performs better than water, especially in poorly centralized or deviated sections, maintaining density hierarchy and reducing flow stratification. As a cement slurry, the D208 ScavengerPlus system develops compressive strength to protect casing and improve zonal isolation across the zones covered after placement. In zones susceptible to channeling, this viscous fluid increases mud removal performance for better bonding.

Fast viscosity development

Scavenger slurries are normally mixed on the fly, which means obtaining adequate hydration in the time it takes to fill a displacement tank volume. D208 ScavengerPlus slurry stabilizer meets this requirement with rapid viscosity and yield stress–building properties.

Reduced footprint

The improved mud removal and zonal isolation experienced with D208 ScavengerPlus stabilizer is completed while maintaining operational simplicity. No special mixing equipment is required, reducing equipment footprint and the associated operation risk.



Fast plastic viscosity (PV) development of D208 ScavengerPlus stabilizer using Pozzolan Cement Blend A (Pozz:A) and Class G cement.



Left: 1.5-kg [12.5 lbm/galUS] slurry with 4% bentonite by weight of blend. Right: 1.5-kg slurry [12.5 lbm/galUS] with 2 kg/m³ ScavengerPlus stabilizer. Right sample shows a uniform appearance, with no settling. Pictures taken within 5 min of mixing.

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