

D700 HT GASBLOK

Gas migration control additive for high temperatures

APPLICATIONS

- Control of severe annular gas migration during high-temperature primary and remedial cementing
- Wells with a narrow window between pore and fracture pressure

BENEFITS

- Reduced HSE risk during cement placement

FEATURES

- Compatible with CemCRETE* concrete-based oilwell cementing technology, FlexSTONE* advanced flexible cement technology, and standard Schlumberger cement additives
- Easy pumping due to low rheology, resulting in reduced cement slurry friction loss
- Formation of low-permeability plastic film that prevents gas movement
- Improved cement bonding to formation and casing
- Excellent fluid loss control

D700 HT GASBLOK* gas migration control additive creates an impermeable barrier that prevents annular gas migration into cement slurry during the critical hydration period. The additive is an aqueous dispersion of latex particles with surfactants to improve dispersion and add stability.

When formation gas enters the cement slurry, the latex particles coalesce to form a coherent, low-permeability plastic film that blocks further migration into the cement. The additive also controls gas migration by improving cement bonding to the casing and formation interfaces. In addition, it creates a thin, low-permeability filtercake to reduce fluid loss from the cement slurry.

The ability of the cement slurry to stop gas migration is directly related to additive concentration, which depends on the bottomhole circulating temperature (BHCT) and slurry solid volume fraction.

D700 HT GASBLOK additive can be used in severe applications with BHCTs ranging from 250 to 350 degF [121 to 177 degC] and in slurries of any density. Typical slurry densities range from 8.0 to 23.0 lbm/galUS [960 to 2,760 kg/m³].



D700 HT GASBLOK additive prevents gas migration during high-temperature primary and remedial cementing.

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