

CHEK

Filtration Control Agent

Product Description

CHEK filtration-control additive is a special starch derivative used in sized salt systems. When used in conjunction with a bridging agent such as sized calcium carbonate or sized salt, it provides a thin, pliable, easily removed filter cake.

CHEK additive is a non-ionic material especially suited for fluids containing salts or ion-sensitive additives. CHEK material acts synergistically with Xanthan gum additive to enhance the Low-Shear-Rate Viscosity (LSRV) of sized salt systems

Typical Physical Properties

Physical appearance	Off-white powder
Specific gravity	1.5
Solubility in water	Soluble

Application

CHEK additive is used to reduce fluid loss in the sized salt system. It contributes to elevated LSRV compared to conventional fluid-loss additives. Unlike most Polyanionic Cellulose (PAC) or starch-base additives which thin the sized salt system, CHEK additive actually increases the LSRV.

CHEK additive can be used in most brine including seawater, NaCl, KCl, CaCl₂, NaBr and formate salt systems. It resists calcium contamination over a wide pH range and can be used at temperatures to 250°F (121°C). A thermal extender is recommended to allow the use of CHEK additive in wells with bottom hole temperatures as high as 300°F (149°C).

Advantages

- Provides a thin, pliable, easily removed filter cake which minimizes formation damage and facilitates cleanup during completion
- Acts synergistically with Xanthan gum additive to enhance LSRV
- Not adversely affected by salinity and functions over a wide range of water chemistry

Limitations

- Begins to degrade thermally at temperatures above 250°F (121°C)
- Subject to bacterial degradation. A biocide is recommended to prevent fermentation in fluids which are not saturated with salt

Recommended Treatment

CHEK additive concentrations range from 1 to 4 lb/bbl (2.85 to 11.4 kg/m³) for most applications. Special ultra-low, fluid-loss formulations require higher concentrations.

Packaging and Storage

CHEK is packaged in 55-lb (25-kg) and 50-lb (22.7-kg), multi-wall, paper sacks. Store at moderate temperatures in a dry, well-ventilated area.

Important Note: These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.