Weatherford®

Reservoir Stimulation

WBK-133

Breaker for Water Gels

WBK-133 is an oxidizing breaker that returns guar-based gelled fluids to a viscosity slightly above water. It is effective in linear, cross-linked, and foamed fracturing fluids for low-to-moderate temperature applications.

Advantages

- Strong oxidizer
- Provides reliable breaks at low-to-moderate temperatures
- Works on linear, cross-linked, and foamed fracturing fluids

Applications

WBK-133 oxidizes the gel polymer to destroy the polymer chains, thereby reducing viscosity to allow flowback of the stimulation fluid while leaving the proppant in the fracture.

The effective temperature range for WBK-133 is 120 to 185°F (49 to 85°C). This temperature range can be lowered to 80°F (27°C) when WBK-136L - breaker activator is used at 1 to 2 gal/1,000 gallons (1 to 2 L/m^3).

Usage

Use WBK-133 at 0.5 to 1.0 lb/1,000 gallons (0.06 to 0.12 kg/m^3) as a starting point in break tests.

For temperatures below 120°F (49°C), WBK-133 must be activated with WBK-136L at a loading of 1 to 2 gal/1,000 gallons (1 to 2 L/m^3).

WBK-133 is a strong oxidizer, so it should be stored separately and away from other inventory, such as solvents, gels, surfactants, or other flammables.

Physical Properties

Appearance	White crystals
Specific gravity	1.9 to 2.0
Bulk density (lb/ft^3, *kg/m^3*)	54 to 59 *865 to 945*
Temperature limit (°F/*°C*)	< 185° *< 85°*
Solubility in water (°F/*°C*)	85% by weight at 77° *25°*

Issued 06/20/08

Weatherford International Ltd.
515 Post Oak Blvd., Suite 600
Houston, Texas 77027 USA
Tel: 713-693-4000
weatherford.com

 5658.00