Cementing

Tuned Spacer E+™

Tuned Spacer E+™ cement spacer for optimum drilling fluid removal helps meet the industry’s need for more environmentally acceptable products.

Tuned Spacer E+ cement spacer was developed around the erodibility concept. For the spacer to provide sufficient shear stress for optimum mud removal and displacement, the yield point (YP) of the spacer can be adjusted to the required value with appropriate amounts of spacer blend. Tuned Spacer E+ cement spacer can be formulated from 10 to 20 lb/gal in fresh water, seawater, and salt water up to at least 18%. The cement spacer also shows excellent YP retention. The YPs at ambient temperature are similar to those at 180°F (82°C). Tuned Spacer E+ cement spacer also has good suspension properties up to its temperature limit of approximately 310°F (155°C).

Benefits
Tuned Spacer E+ cement spacer:
- Consists of a blend of gelling agents and dispersants.
- Includes environmentally acceptable components, which are listed on the PLONOR List (“green” list).
- Meets Control of Substances Hazardous to Health (COSHH) regulations for operations in the United Kingdom.
- Contains no hazardous materials, according to OSHA regulations.

Figure 1—Yield points of Tuned Spacer E+ cement spacer at 180°F (82°C), formulated with increasing blend amounts

PV/YP as function of temperature (Fann 70 at 5000 psi)

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