

CemFIT Flex

Flexible cement system

APPLICATIONS

- Wells with potential for:
 - sustained casing pressure (SCP)
 - postplacement pressure and temperature variations (e.g., due to injection, hydraulic fracturing, or underground gas storage)
- Oil and gas wells in environmentally sensitive areas
- Primary cementing
- Abandonment plugs

BENEFITS

- Improves long-term well integrity by preventing set-cement-sheath mechanical failure
- Reduces the risk of SCP, mechanical well damage, and collapsed casing
- Mitigates lost production and costly remedial treatments

FEATURES

- Low Young’s modulus for greater flexibility
- Standard designs for a wide range of densities and temperatures
- Variable slurry density with one blend, simplifying logistics
- Suitable for both batch mixing and mixing on the fly using conventional equipment

Achieve zonal isolation for the well’s life

CemFIT Flex* flexible cement system helps ensure well integrity from drilling to abandonment, providing a competent annular pressure seal and protecting against hydrocarbon leaks and SCP at the wellhead and crossflow downhole. This versatile, advanced mineral-based system has the mechanical properties to withstand wellbore stresses without the requirement of foaming or the addition of elastomeric additives.

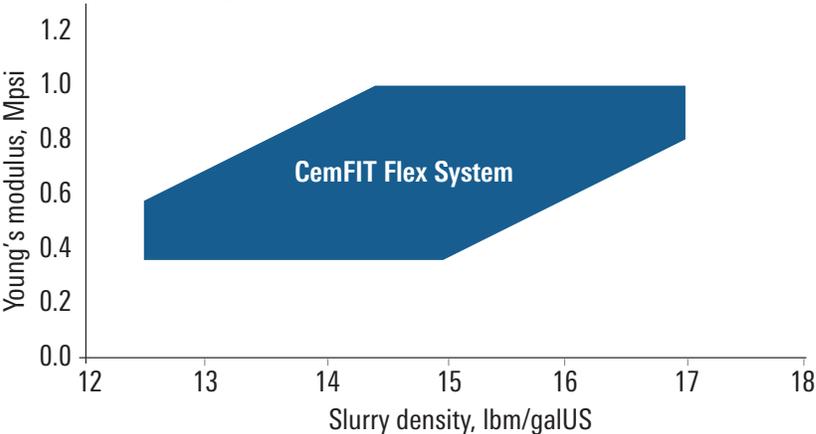
CemFIT Flex system is compatible with conventional cementing additives so slurry properties can be adjusted to meet all standard cementing requirements. Postset cement expansion to prevent the formation of microannuli can be obtained by incorporating expanding agents. A low Young’s modulus enables the cement

to withstand cement sheath stresses due to perforating, temperature changes, well completion, pressure changes, stimulation treatments, and drilling.

Mix and adjust with ease

In addition to a simply designed cement job, slurry and set cement properties can be easily adjusted for optimal results to accommodate changes to cement designs and job programs. CemFIT Flex system is also easy to blend and mix using conventional equipment, making it suitable for large-scale use. The system increases efficiency and improves reliability.

Young’s Modulus Versus Slurry Density



With low Young’s modulus across a wide density range, CemFIT Flex system minimizes the risk of cement mechanical failure to help ensure long-term well integrity.

CemFIT Flex System Specifications

Density range, lbm/galUS [kg/m ³]	12.5–17.0 [1,500–1,940]
Temperature range, degF [degC]	70–300 [20–150]
Young’s modulus, psi [GPa]	350,000–1,000,000 [2.4–6.9]

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