



NeoFlex Cement System

Cefas Rated Gold

P/N E0101-350-017-Cefas

Service Range: 70° - 350° F (21° - 177° C)

Availability

17 ppg • 5-gallon Batch Kits for bailing operations
Dump Bailer Cement Kits are off-the-shelf ready-to-go cement kits
Bulk volume sacks for pumping (contact NeoProducts for more information)

Unique Physical Attributes

Ultra-low Permeability • Flexible • Post-Cure Expansion • High Shear Bond • Self-Healing

NeoFlex has unique physical properties that enhance fracture toughness, elasticity, and bonding to casing and formations, eliminates the occurrence of micro-cracking and gas migration.

NeoFlex is used to Block Gas Migration and the Occurrence of Sustained Casing Pressure (SCP)

Applications

Rigless recompletions and well abandonments.

Unique NeoFlex Features

- Post-cure expansion that seals and heals throughout well production life and abandonment,
- Blocks gas migration and eliminates the occurrence of sustained casing pressure,
- Ultra-low permeability that prevents hydrocarbon migration,
- Flexibility and durability that eliminates the occurrence of micro-cracking, ensures long-term well integrity, and eliminates de-bonding between cement, casing, and formation.

NeoProducts & HPI cement systems have been run in 100,000+ wells over the last 33 years.

NeoFlex plugs, anchors, seals, heals and re-heals over a lifetime of well production & abandonment.

See Page 2 for Cement Plug Length Determinations



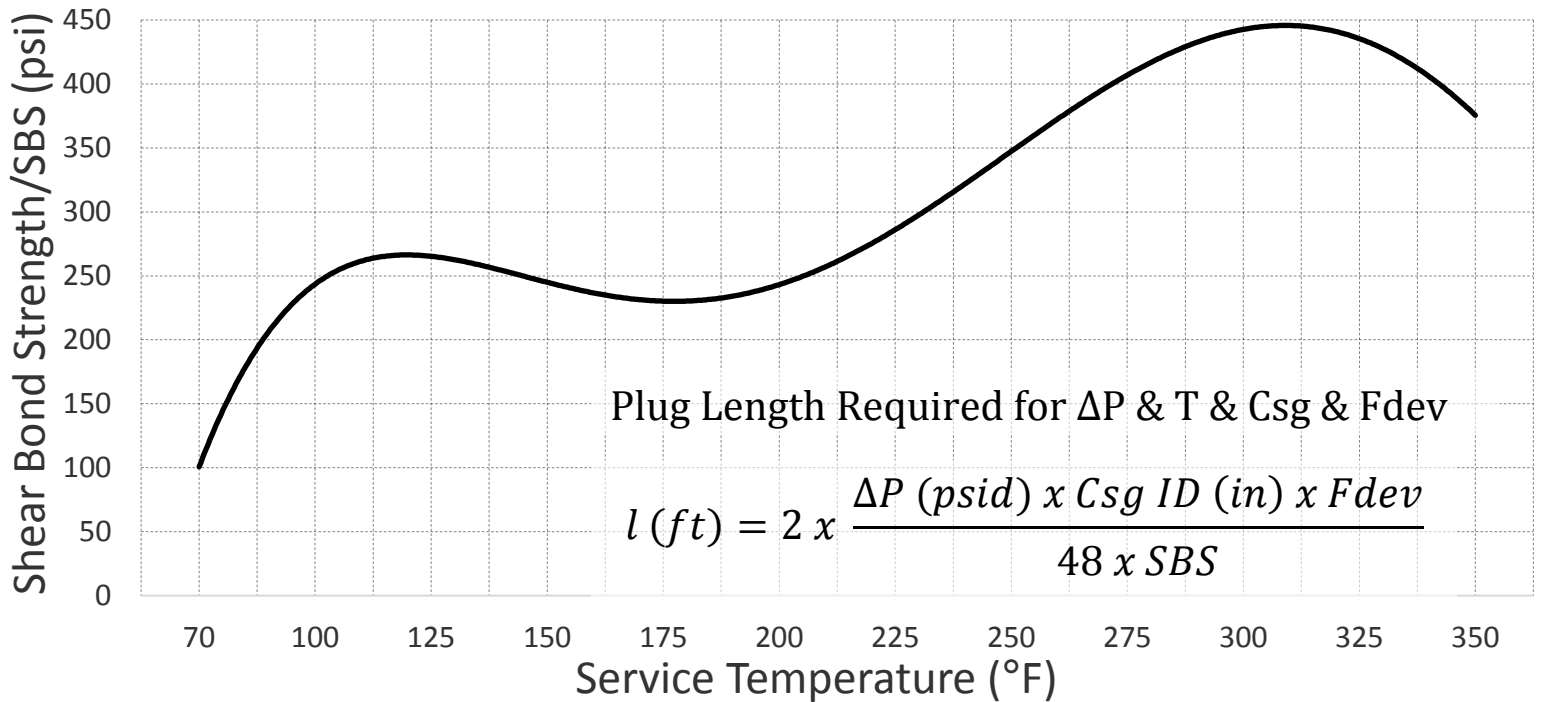
NeoFlex Casing Plugs - Length Determinations

NeoFlex plugs maybe be pressure tested 16 hrs after cement placement when is T is $\geq 150^{\circ}\text{F}$

And 24 hours when T is $\leq 150^{\circ}\text{F}$

Early high compressive strength reduces “wait on cement time”

24 Hour NeoFlex Shear Bond Strength vs Service Temperature



$F dev = 1.0 @ 0^{\circ} deviation, 1.2 @ 30^{\circ}, 1.6 @ 60^{\circ}, 2.0 @ 70^{\circ}$

$l =$ Required plug length to achieve ΔP , $\Delta P =$ Desired differential pressure, Casing ID (inches),

$Fdev =$ Deviation Derating factor, SBS = Shear Bond Strength

The double hump SBS curve is related to the complex interactions of transient cement silicate phases and retarder concentrations.

Reducing “wait on cement time” is commonly done, contact NeoProducts for details.

Contact NeoProducts to discuss your upcoming project needs.

NeoProducts prudently recommends;

Read and comply with all the slurry mixing instructions included with the NeoFlex cement.

When dump bailing, locate the bailer bottom to be 1-2ft above the platform upon which the slurry will collect,

“never dump less than 10 ft of cement slurry when a long-term high ΔP plug is desired”.