

Cross-Linker

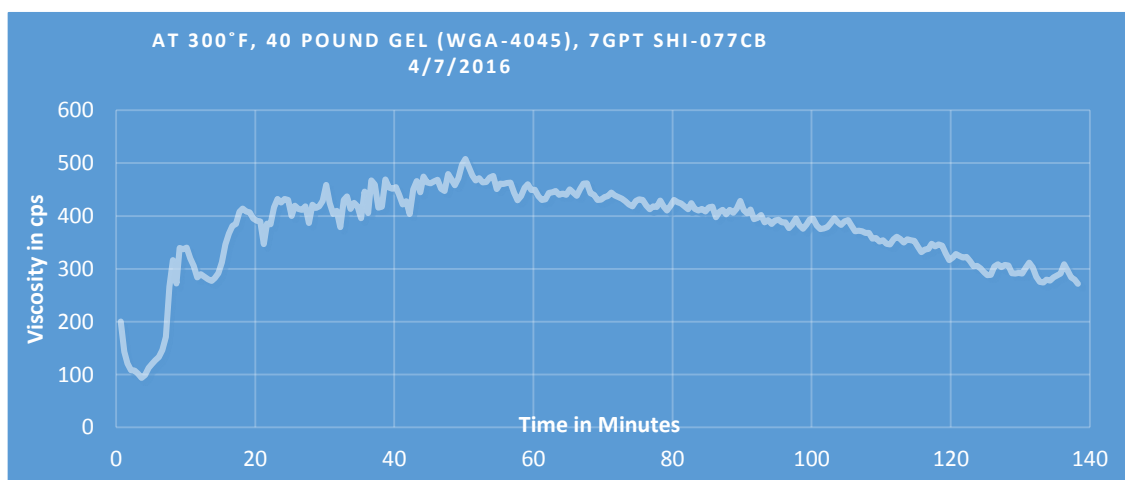
Cross-linkers are used to increase the molecular weight of guar gel by cross-linking the polymer backbone into a 3D structure. This increases the base viscosity of the linear gel, also increases the elasticity and proppant transport capability of the fluid.

Product	Activity	Chemistry	Temperature Range
SHI-070CB	Instant	Aqueous Buffered Borate	>150°F
SHI-072CB	Delayed	Aqueous Surface Borate	>200°F
SHI-075CB-L	Instant	Aqueous High Temperature Borate	>250°F
SHI-077CB	Delayed	Aqueous Delayed Borate	>300°F

The cross-link obtained by using borate is reversible and is triggered by altering the pH of the fluid system. The reversible characteristic of the crosslink in borate fluids helps them clean up more effectively, resulting in good regained permeability and conductivity.

ADVANTAGES:

- Excellent proppant transport
- Stable fluid rheology at temperatures as high as 300°F



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