

Emulsified CO₂ and Enhanced Emulsified CO₂

Minimize the amount of water placed in your formation

Trican's Emulsified CO₂ (ECO₂) and Enhanced Emulsified CO₂ (EECO₂) are fracturing fluid systems comprised of predominantly liquid carbon dioxide. These high carbon dioxide fracturing fluids minimize the amount of water placed into a formation, maintaining high gas saturation in the leakoff area. ECO₂ and EECO₂ have a proven track record for being non-damaging, while enabling rapid cleanup in water sensitive and low pressure formations.

ECO₂

The ECO₂ system is run at CO₂ concentrations of 50% - 80%, creating the ability to tailor fluid viscosity to meet specific needs. ECO₂ can also be run with up to 40% methanol in the water phase, further reducing water usage during treatment and mitigating concerns of freezing on flowback. Additionally, ECO₂ can be used to run a binary fracturing fluid, combining CO₂ and N₂ as the energized phase.

EECO₂

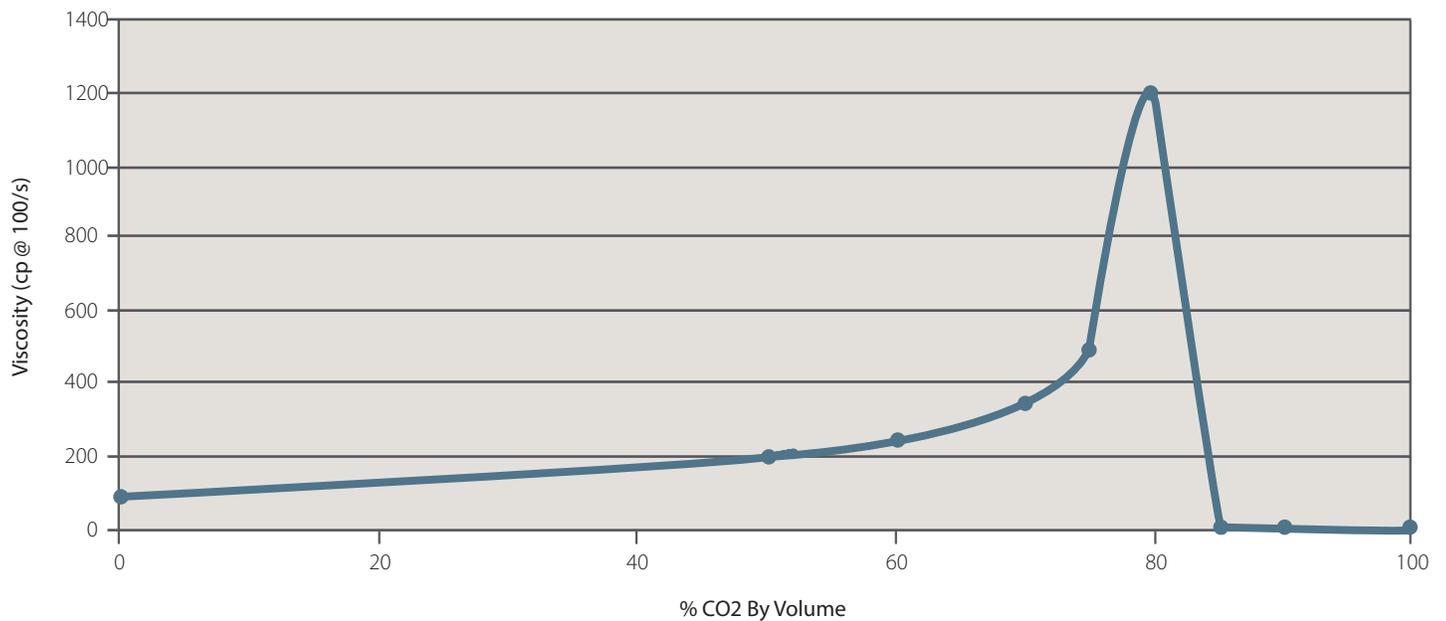
EECO₂ provides additional fracturing fluid customization, allowing viscosity and thermal stability to be increased as needed with the addition of a zirconium crosslinker to the gel.



ECO₂ and EECO₂ Advantages

- Higher proppant concentrations compared to a foam system
- Hydrostatic gradient of liquid CO₂ lowers treating pressure
- Clean polymer, easily degradable with enzymes or oxidizers
- Rapid cleanup
- Minimizes water placed into the formation
- Provides liquid lift in low pressure reservoirs
- Maintains high gas saturation in leak-off area
- Can be used with low polymer concentrations

Emulsified CO₂ Viscosity Versus CO₂ Quality



For more information, please contact **Trican Well Service**.



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