



HYBRID CHEMICAL
TECHNOLOGIES

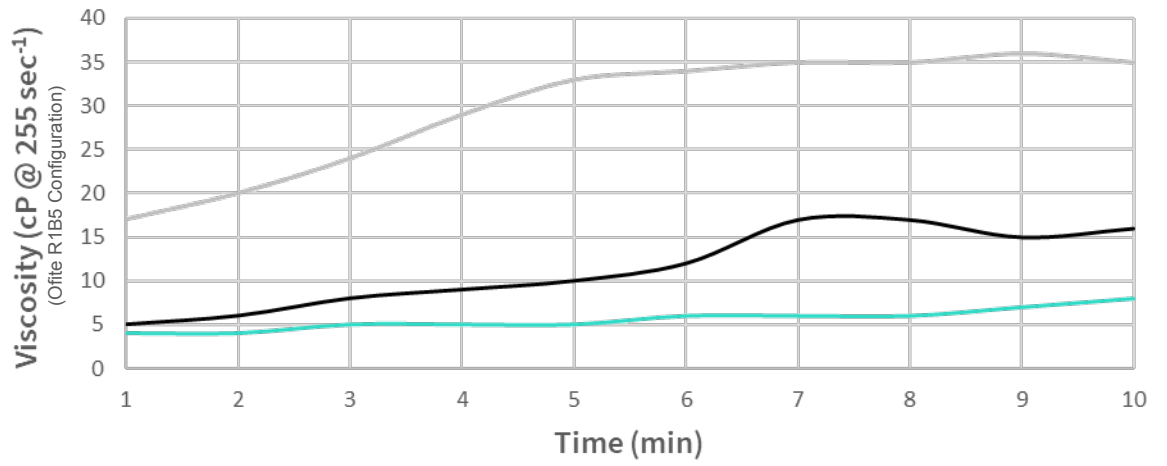
HIGH VISCOSITY FRICTION REDUCER

HVFR-700ST

HVFR-700ST is the premier anionic high molecular weight polyacrylamide friction reducer for hydraulic fracturing operations. This product excels in fresh water as well as brine, allowing for water recycling and avoiding disposal costs. HVFR-700ST is available as a powder or as a liquid slurry and is appropriate for use in fresh, brackish, brines and produced waters.

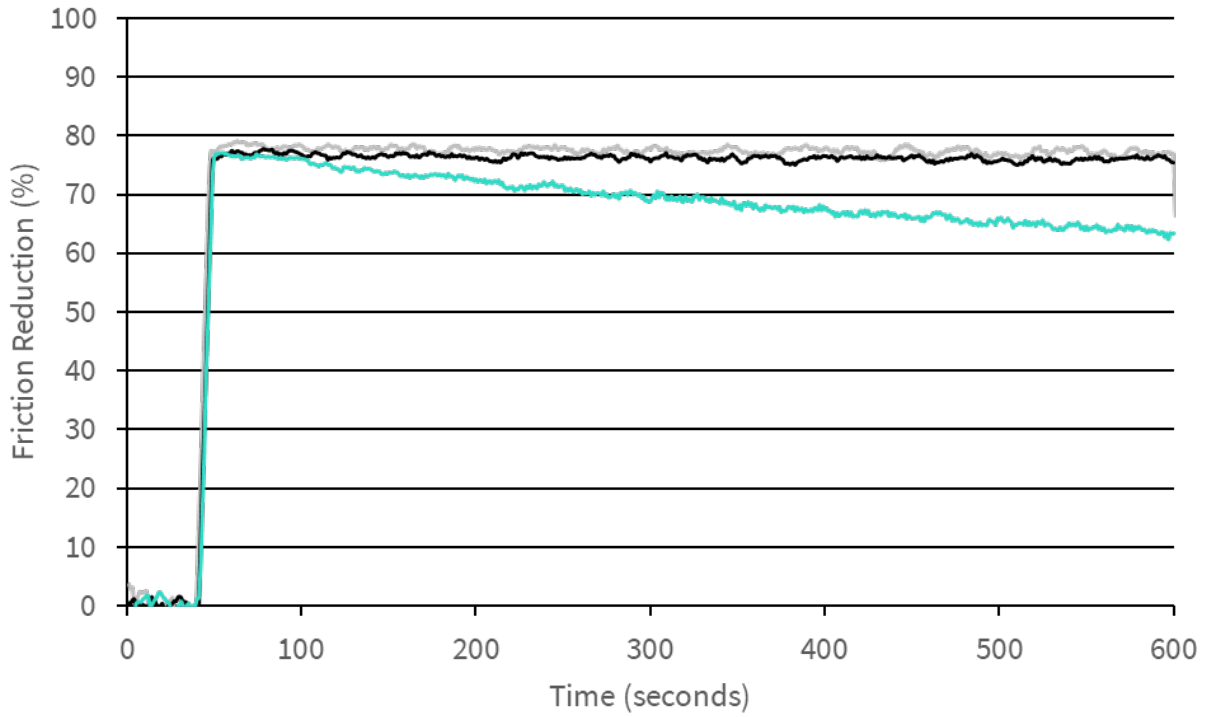
- Fresh
- KCl Brine
- Modified API Brine

Hydration Profile (1.5 kg/m³)



Brine Compositions		
Salt (% w/v)	KCl Brine	Modified API Brine
NaCl	-	8.0
KCl	3.0	-
CaCl ₂	-	2.0
Salinity (ppm)	30,000	100,000

Flowloop Testing (0.1 kg/m³)



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