



HYBRID CHEMICAL
TECHNOLOGIES

HIGH VISCOSITY FRICTION REDUCER

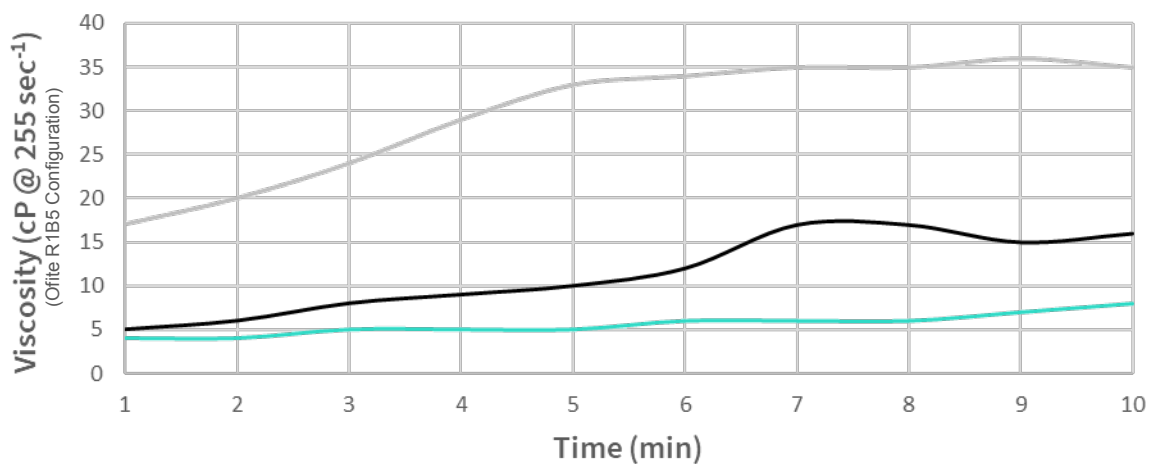
HVFR-800ST

HVFR-800ST is a powdered anionic friction reducer that can be utilized in fresh water to high brines.

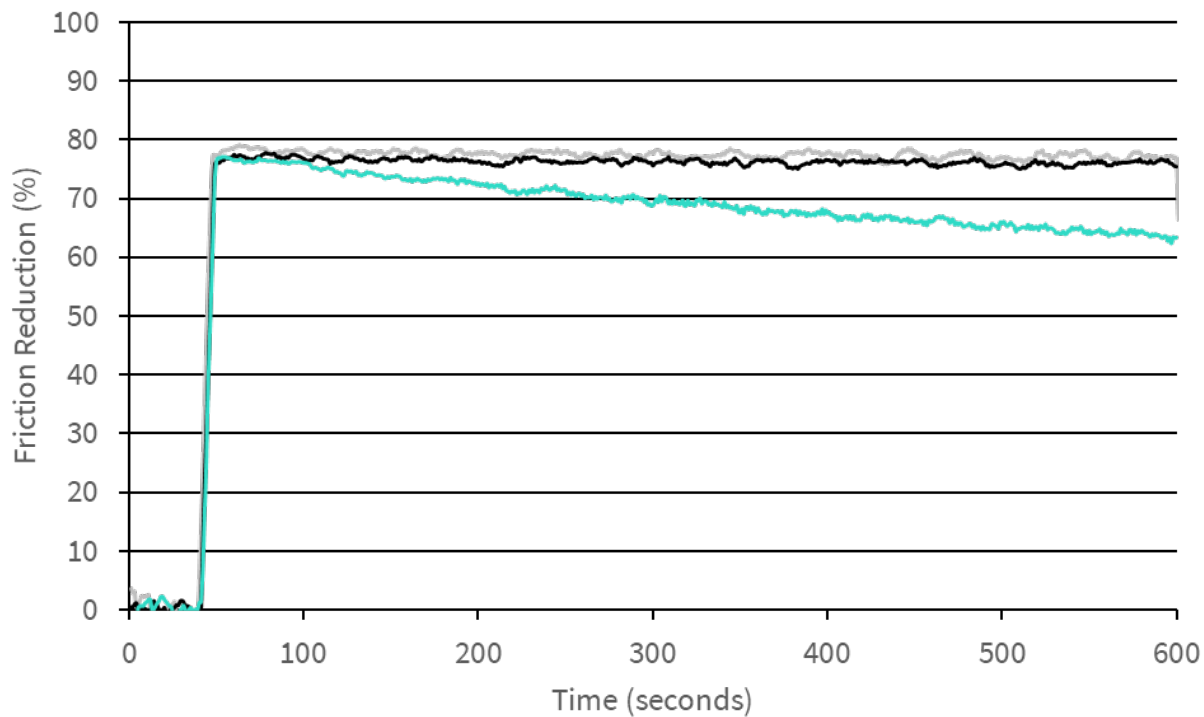
Performance in high brine solutions is the same as in fresh water. The polymer is compatible with additives and anions in water. The polymer can be tailored to slick water or slick-visc treatments as this product does gain significant viscosity in fresh and brine water, allowing for water recycling and avoiding disposal costs.

- Fresh
- KCl Brine
- Modified API Brine

Hydration Profile (1.5 kg/m³)



Flowloop Testing (0.1 kg/m³)



Brine Compositions		
Salt (% w/v)	KCl Brine	Modified API Brine
NaCl	-	8.0
KCl	3.0	-
CaCl₂	-	2.0
Salinity (ppm)	30,000	100,000



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