



HYBRID CHEMICAL  
TECHNOLOGIES

# HIGH VISCOSITY FRICTION REDUCER

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## HVFR-120

HVFR-120 is an AMPS-based, high molecular weight polyacrylamide friction reducer used for hydraulic fracturing operations. At low loadings, it behaves as a simple slickwater friction reducer, and as the loading increases it forms a strong viscoelastic gel with enhanced proppant suspension and transportation ability. HVFR-120 is available as a powder or as a liquid slurry. HVFR-120 is appropriate for use in freshwater to mid TDS base fluids.

## VISCOSITY TESTING

L/M <sup>3</sup>	511 sec <sup>-1</sup>	100 sec <sup>-1</sup>
-	1	1
<b>4</b>	23	45
<b>5</b>	29	61
<b>6</b>	34	79

## BALL DROP TESTING

L/M <sup>3</sup>	Suspension Factor
-	1.0
<b>0.2</b>	1.2
<b>4.0</b>	6.4
<b>5.0</b>	9.1

Flowloop Data

