PCFR

PURECHEM 70 SERIES



PureChem®
Services
Completion Fluids

PCFR-70 SERIES

Elevating Performance with the PCFR-70 Series

PureChem's PCFR 70 Series *slurry friction reducers* are the product of continual innovation and optimization, with a 70% high active polymer concentration that redefines the standard for friction reduction. Designed for use in both fresh to high salinity brines, the PCFR-70 series pushes the limits of performance in today's hydraulic fracturing operations with its viscosity building and proppant suspension capabilities.

Why Choose PCFR-70 Slurries?

01 HIGH POLYMER CONTENT

Contains **70% active polymer by weight**, offering maximum active content per volume.

High efficiency translates to reduced chemical volumes and fewer storage requirements.

02 VERSATILE APPLICATION

Effective across a range of fluid systems, from fresh water to high salinity brines.

Suitable for both slickwater and HVFR applications, delivering optimized fluid performance.

03 OPERATIONAL EFFICIENCY

No need for additional hydration units or equipment.

Easier handling with fewer on-site logistics and manpower needs.

Rapid hydration ensures quick integration into the fluid system, minimizing downtime.

Laboratory Testing Results

Extensive testing using PureChem's Chandler 6500 flow-loop system demonstrated PCFR-70 Series' superior performance in friction reduction. Key findings include:

- **Consistent Friction Reduction:** PCFR-70 Series delivered reliable pressure reduction across a range of chemical loadings, proving effective in both fresh water to high salinity brines.
- **Rapid Hydration:** The slurry-based formulation ensured rapid and consistent hydration, seamlessly integrating into the fracturing fluid systems.
- **Stability and Performance:** PCFR-70 Series maintained stable viscosity and friction reduction over time, ensuring smooth pumping operations without the need for additional equipment or complex workflows.



AN OPERATOR'S DILEMMA:

Inconsistent Pressure and Equipment Overload

Operational Hurdle: Managing Pressure Fluctuations

An operator in the Montney formation faced operational challenges using conventional dry friction reducers, including inconsistent pressure reduction and equipment complications.

Our Solution: Seamless Integration

PureChem introduced PCFR-70 C, allowing for seamless integration without the need for additional equipment. The product's rapid hydration and high efficiency enhanced fluid management across multiple wellbores.

Why 70% Active Polymer by Weight is Superior

Weight-based active polymer content offers a higher concentration of performance material than volume-based alternatives. This distinction ensures more consistent performance regardless of changes in temperature or density, leading to better friction reduction and proppant transport. With the PCFR-70 Series, operators achieve greater precision and reliability in every application.

By Weight



14.2% more active ingredient per m³ weight over weight

By Volume





KEY OUTCOMES

By switching to PCFR-70 C, the operator achieved:

PRESSURE DROP

Immediate pressure reduction after switching to PCFR-70 C.

NO ADDITIONAL EQUIPMENT

Eliminates the need for hydration units, reducing logistics and manpower.

1:1 LOADINGS

Outperformed dry FRs at equivalent dosing rates. Immediate pressure increase with competitor FR.

IMPROVED PROPPANT TRANSPORT

Enhanced viscosity and proppant transport with less water and fewer chemicals.

COST SAVINGS

Lower equipment, logistics, and chemical requirements lead to significant cost reductions.

www.purechemservices.com

PURECHEMSERVICES.COM
HEAD OFFICE: (403) 269-2800
14TH FLOOR - 332 6 AVE SW
CALGARY, AB T2P 0B2