Potassium Polyacrylate (K-PAM)®

Product Description

A highly effective shale inhibitor developed specifically for drilling fluids. Through a synergistic mechanism combining potassium ion inhibition and polymer coating, it effectively reduces shale hydration swelling and improves wellbore stability.

K-PAM not only inhibits shale dispersion but also possesses certain filtrate loss reduction and rheological modification capabilities. It forms a protective layer on the wellbore wall, reducing filtrate intrusion into the formation and minimizing reservoir damage. The product is suitable for freshwater, brine, and high-mineralization water-based drilling fluid systems.

Applications/Features

- Effectively inhibits shale hydration swelling
- Reduces the risk of wellbore collapse, borehole narrowing, and drill bit sticking
- Provides some loss control
- Suitable for both fresh and brine drilling fluid systems
- Compatible with a wide range of water-based drilling fluid additives

Technical Indicators

Item	Specifications
Appearance	White powder granules
Potassium Content	11%–15%
Moisture Content	≤8%
pH (1% solution)	6.0–10.0
Intrinsic Viscosity (dL/g)	≥6.0
Recommended Dosage	2–9 kg/m³