

PHPA is a specially treated high molecular weight Partially Hydrolyzed Polyacrylamide polymer for all water-based drilling fluids. It functions as viscosifying agent, shale and borehole stabilizer, encapsulator, bentonite extender, flocculation agent and assist with fluid loss control.

Typical Characteristics

Parameter	Specification
Appearance	White granular powder
Ionic Nature	Anionic
Solid Content (%)	≥ 88.0
Insoluble Content (%)	≤ 0.20
Residue Monomer (%)	≤ 0.15
Hydrolysis (%)	23 – 30
Molecular Weight*	2 million – 35 million
*Various range of molecular weight available upon customer's requirement	

Application

PHPA is applicable in freshwater, seawater, saturated saltwater mud, KCl and solids free brine systems. It provides cuttings encapsulation, shale filming/inhibition, flocculation of drilled solids, viscosity and lubricity.

Packaging and Storage

PHPA is packaged in 25 kg or 50 lbs paper sacks. Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Safety Data Sheet (SDS).

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