

Product Information

Argipol F

Bore Hole Stabilizing Liquid Polymer Clay Inhibitor

Description: **Argipol F** is a high viscous, anionic synthetic polymer containing partially hydrolyzed polyacrylamide/sodiumacrylate Copolymer (PHPA) with a high molecular weight.

Argipol F is a water soluble liquid additive, based on a water/oil emulsion, which allows rapid field mixing in fresh water and in bentonite mud.

Application: Horizontal Directional Drilling (HDD)
Water Well Drilling
Vertical Drilling, Coring
Tunneling, Mining

Functions:

- Eliminates clay and shale swelling, stabilizes boreholes through a special encapsulation of swellable material
- Eliminates caving and keeps boreholes open
- Reduces bit balling and sticking
- Viscosifier for solid-free muds
- Produces low torque and high lubricity on drill string
- Reduces erosion damage of circulating mud
- Reduces continuous dispersion of cuttings
- Enhances rheological properties of suspension
- Compatible with KCl / PHPA mud systems

Argipol F can be used as a single component in solid free muds as well as an additive for PHRIKOLAT Bentonit Typ W.

Argipol F can also be used to stabilize and to stiffen drilling foam. Argipol is also available as a fine granular under the product name Argipol P.

Recommended Use:

- Added to Bentonit Typ W (clay inhibition): 0,5-1,5 kg/m³
- Solid-free polymer mud: 1-3 kg/m³

Higher concentration of Argipol F may flocculate certain types of bentonite. In bentonite systems Argipol F should therefore be added immediately after the preparation of the bentonite suspension.

Check make-up water on pH value (best 8,5-9,5) and water hardness. Before adding Argipol F high concentration of Ca⁺⁺ and Mg⁺⁺ ions (>30 °dH) should be eliminated by treatment with soda ash.

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Packing: 25 kg plastic jerry cans,
Storage Temperature: -10 to +35 °C

Physical and chemical properties:

Colour:	white
Appearance:	light viscous liquid on O/W-Emulsion basis
Odour:	similar to paraffin
Ionogenity:	anionic
Flash point:	> 100 °C
Density:	1,03 g/cm ³ bei 20 °C
Viscosity:	10-12 mPas (0,2% solution, 20°C, FANN 35 @600 RPM)
	dynamic: < 4000 mPas at 20 °C > 7 mPas at 40 °C
pH-Value:	7,5 (0,5% solution) 8,0 (2,0% solution)