

QUIMAGEL HEC

Thickener for drilling fluid

Chemical composition:

QUIMAGEL HEC is a product mainly formulated with Hydroxyethyl Cellulose, which ensures excellent properties as a thickener and binder for drilling fluids.

Description:

<p>Quimagel HEC is a rheological additive which increases viscosity and provides thixotropy to drilling fluids. This product is commonly used in drilling process.</p> <p>Quimagel HEC must be added slowly to water while stirring, until homogeneous mixture in gel form. This gel facilitates drilling tasks and holds the walls of the hole.</p> <p>Quimagel HEC is biodegradable. This product can be used alone or in combination with other drilling additives.</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">PROPERTY</th> <th style="padding: 5px;">VALUE</th> <th style="padding: 5px;">UNIT</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Aspect:</td> <td style="padding: 5px;">Cream powder</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Density (20°C)</td> <td style="padding: 5px;">N.A</td> <td style="padding: 5px;">N.A</td> </tr> <tr> <td style="padding: 5px;">Viscosity (20°C) (2% sol.)</td> <td style="padding: 5px;">5000-10000</td> <td style="padding: 5px;">cp</td> </tr> <tr> <td style="padding: 5px;">pH Value (20°C) (2% sol.)</td> <td style="padding: 5px;">6.5-8.0</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Purity</td> <td style="padding: 5px;">>90</td> <td style="padding: 5px;">%</td> </tr> </tbody> </table>	PROPERTY	VALUE	UNIT	Aspect:	Cream powder		Density (20°C)	N.A	N.A	Viscosity (20°C) (2% sol.)	5000-10000	cp	pH Value (20°C) (2% sol.)	6.5-8.0		Purity	>90	%
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Applications:

QUIMAGEL HEC is mainly used to drill granular materials, silt and clay, with very good performance in a basic pH range (pH>5.5). In aqueous solution forms a highly viscous gel whose main applications are:

- **Better performance than other polymers when drilling levels with high salt content.**
- **Facilitate drilling effect "lubricant".**
- **Holding and give more stability to the walls of the hole.**
- **Avoid drilling siphoning of confined groundwater levels at very low pressure.**
- **Facilitate the removal of cuttings inside the hole.**
- **Facilitate cooling of the drill or drill bit.**

How to use :

QUIMAGEL HEC is directly added to the water for drilling, stirring the mixture until homogeneous. It can be necessary to wait 10-20 minutes until complete hydration.

There is not a specific dosage for this product because it depends on drilling, but normal dosage can be between **0.5- 3%** of total water.

Presentation and storage:

QUIMAGEL HEC is provided in sacks of 25 Kg. The product is stable during 8 months in properly storage conditions.