



产品介绍——钻井液用改性淀粉

Modified Starch for Drilling Fluid

产品名称 (Product name)

钻井液用改性淀粉 DF-1 Modified Starch for Drilling Fluid

性能及应用 (Application)

钻井液用改性淀粉 DF-1 是淀粉在催化条件下，与带特定官能团的活性物进行反应而改性后的水溶性产物。通过在淀粉的分子链上引入抗高温改良基团，增加了其抗温抗盐性能，因而可在地层温度较高的深井中使用。

DF-1 在泥浆中加量 1.5%，即能产生良好使用效果。

- a、具有良好的降失水性，能显著降低淡水、盐水泥浆的滤失量；
- b、具有良好的抗温性，抗温可达 150℃；
- c、对钻井液流变性无影响，不增粘；
- d、与其它处理剂配伍性好，无毒，不污染环境。

Modified Starch for Drilling Fluid DF-1 a chemically modified starch with special functional group with catalytic. The high temperature property is greatly improved by the introduction of functional group in the molecular chain. It shows excellent high temperature stability and salt resistance and can be used in deep wells with high temperature. It can exhibit its function when add 1.5% into the drilling fluid.

- a. excellent filtration property and can greatly reduce the fluid loss of fresh & salt water drilling fluid;
- b. superior high temperature stability, can be stable at 150℃;
- c. no influence to drilling fluid rheology, will not increase the viscosity;
- d. good compatibility with other additives, non-toxic and no pollution of the environment.

质量指标 (Specifications)

项 目 <i>Properties</i>		技 术 指 标 <i>Values</i>	
外 观 Appearance		自由流动粉末 Free flowing poeder	
水 分 Moisture	%	≤10.0	
筛余量 Screen oversize (筛孔孔径 screen diameter 0.90mm)	%	≤10.0	
淡水浆试验 Fresh water	基浆 Base mud	滤失量 Filtration mL	50 ± 10
		表观粘度 Av mPa.s	≤10.0
	DF-1 加量 15g/L, 室温养护 16h Addition amount 15g/L, room temperature × 16h	滤失量 Filtration mL	≤15.0
		表观粘度 Av mPa.s	≤18.0
	DF-1 加量 15g/L, 140℃热滚 16h Addition amount 15g/L, rolling at 140℃ × 16h	滤失量 Filtration mL	≤15.0
		表观粘度 Av mPa.s	≤18.0
4% 盐水浆实验 4% Salt water	基浆 Base mud	滤失量 Filtration mL	90 ± 10
		表观粘度 Av mPa.s	≤6.0
	DF-1 加量 15g/L, 室温养护 16h Addition amount 15g/L, room temperature × 16h	滤失量 Filtration mL	≤15.0
		表观粘度 Av mPa.s	≤18.0
	DF-1 加量 15g/L, 140℃热滚 16h Addition amount 15g/L, rolling at 140℃ × 16h	滤失量 Filtration mL	≤15.0
		表观粘度 Av mPa.s	≤18.0



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包装储运 (Packaging)

本品采用三合一牛皮纸袋包装 (25Kg/袋), 并内衬防水塑料膜; 储存于阴凉、干燥、通风处。

The product should be packed with triple kraft paper bags as the outside bag and the plastic film bag as the inside bag (25Kg per package) .

操作安全提示 (Operation safety tips)

避免接触到眼睛, 使用时应戴好防护眼镜、手套。安全性信息详见材料安全数据表 (MSDS)。

Wear protective glasses to avoid contact with eyes, gloves when using. Safety information refer to the material safety data sheet (MSDS).