



DRILLING FLUID PRODUCTS

TECHNICAL INFORMATION

IM-PAC™ R High Viscosity Grade Polymer

Viscosity and Filtration Control Aid for Water Based Drilling Fluids

IM-PAC™ R Polyanionic cellulose is an effective additive for reducing the A.P.I. filtration rate of many water based drilling fluids. IM-PAC R may also be used to increase viscosity and improve wellhole cleaning in a wide variety of fluid environments. IM-PAC R provides a cost effective means of improving water based drilling fluid performance.

Product Specifications:

Property	Specification
Purity (% , by weight)	Min 99.0
Degree of Substitution (DS)	1.0 – 1.2
Moisture (% , as packed)	Max 8.0
pH (1% aqueous solution)	7 – 8
Bulk Density (kg/m ³)	650 – 850
Viscosity (1% aqueous Solution, mPas, Brookfield, Sp 3, rpm 30)	>3000
Appearance	White free flowing powder

Applicable Fluid Types:

IM-PAC R is applicable in the following general types of fluid systems

- Freshwater muds
- Seawater muds
- Saltwater muds (up to and including saturation)
- KCl muds
- Solids free brine (NaCl and KCl)
- Native muds

Functions:

IM-PAC R may be used efficiently in the indicated types of fluid to:

- Reduce the filtration rate of the fluid
- Increase and improve the fluid rheology (including suspension and hole cleaning)
- Stabilize fluid rheology in the presence of contaminants
- Coat and encapsulate cuttings and solids in the drilling fluid, thereby inhibiting the swelling and disintegration of water sensitive solids
- Improve the character and consistency of wallcake, thereby reducing the potential for stuck pipe.

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Typical Product Application

The following information recommends typical treatment of **IM-PAC R** in various types of fluid systems.

Mud Type	lb/bbl	kg/m³
Fresh water fluids		
Un-weighted	0.5 – 1.0	1.4 – 2.9
Weighted	0.75 – 1.5	2.1 – 4.3
Saltwater Systems (Seawater / brackish)		
Un-weighted	1.0 – 2.0	2.9 – 5.7
Weighted	1.0 – 2.25	2.9 – 6.4
Saltwater Systems (Saturated)		
Un-weighted	1.0 – 2.0	2.9 – 5.7
Weighted	1.0 – 2.5	2.9 – 7.2

Packaging:

Packaged in 25 multiwall paper sacks.

Legislation and Handling Recommendations:

Not restricted by any regulatory agency. Refer to the Material Safety Data Sheet (MSDS) for the product prior to use.

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