



DRILLING FLUID PRODUCTS

TECHNICAL INFORMATION

IM-CEL™ HV

High Viscosity Grade Polymer

Viscosity and Filtration Control Aid for Water Based Drilling Fluids

IM-CEL™ HV Carboxy methyl cellulose is an effective additive for reducing the A.P.I. filtration rate in most water based drilling fluids. IM-CEL HV also increases mud viscosity and provides a cost effective means of improving water based drilling fluid performance.

Product Specifications:

Property	Specification
Purity (% , by weight)	Min 60.0
Degree of Substitution (DS)	0.85 – 0.95
Moisture (% , as packed)	Max 8.0
pH (1% aqueous solution)	7 – 9
Bulk Density (kg/m ³)	650 – 850
Viscosity (2% aqueous Solution, mPas, Brookfield, Sp 3, rpm 30)	> 1000
Appearance	White free flowing powder

Applicable Fluid Types:

IM-CEL HV 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-CEL HV 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-CEL HV** in various types of fluid systems.

Mud Type	lb/bbl	kg/m³
Fresh water fluids		
Un-weighted	1.0 – 2.0	2.9 – 5.7
Weighted	1.25 – 2.5	3.6 – 7.2
Saltwater Systems (Seawater / brackish)		
Un-weighted	1.0 – 3.0	2.9 – 8.7
Weighted	1.0 – 3.0	2.9 – 8.7
Saltwater Systems (Saturated)		
Un-weighted	1.5 – 3.0	4.3 – 8.7
Weighted	1.5 – 3.0	4.3 – 8.7

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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