



## DRILLING FLUID PRODUCTS

### TECHNICAL INFORMATION

#### IM-CEL™ LV Low Viscosity Grade Polymer

#### Viscosity and Filtration Control Aid for Water Based Drilling Fluids

IM-CEL™ LV Carboxy methyl cellulose is an effective additive for reducing the A.P.I. filtration rate in most water based drilling fluids. IM-CEL LV provides no appreciable increase in 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 <sup>3</sup> )	650 – 850
Viscosity (1% aqueous Solution, mPas, Brookfield, Sp 3, rpm 30)	< 50
Appearance	White free flowing powder

#### Applicable Fluid Types:

IM-CEL LV 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 LV may be used efficiently in the indicated types of fluid to:

- Reduce the filtration rate of the fluid
- No effect on fluid rheology, can be added to improve fluid loss in mud with already high viscosity
- 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 LV** in various types of fluid systems.

<b>Mud Type</b>	<b>lb/bbl</b>	<b>kg/m<sup>3</sup></b>
<b>Fresh water fluids</b>		
Un-weighted	1.0 – 2.0	2.9 – 5.7
Weighted	1.25 – 2.5	3.6 – 7.2
<b>Saltwater Systems (Seawater / brackish)</b>		
Un-weighted	1.0 – 3.0	2.9 – 8.7
Weighted	1.0 – 3.0	2.9 – 8.7
<b>Saltwater Systems (Saturated)</b>		
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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