
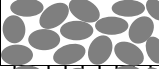









■ Primary Function □ Secondary		Viscosity	Thinner	Filtration Control	Surfactant	Lubricant	Suspension	Inhibitor	Recommended Treatment
Product	Description								per m <sup>3</sup>
IDP-696	Viscosifier	■		□					20 - 40 kg
QUIK-GEL®	Viscosifier	■		■					20 - 40 kg
TUNNEL-GEL® SW	Salt-Water Bentonite	■		■			□		15 - 25 kg
AQUA-CLEAR® PFD	Dispersant/Thinner		■						0,5 - 1 liter
EZ-MUD® GOLD	Shale/Clay stabilizer/Filtration control			□				■	0,5 - 1,5 kg
N-SEAL™	Acid soluble loss of circulation material								5 - 13,6 kg
PENETROL®	Non-Ionic Surfactant				■			□	1 - 2 liter
QUIK-TROL®	Filtration Control	□		■					0,5 - 1 kg
QUIK-TROL® LV	Low Viscosity Filtration Control			■				□	0,5 - 1,5 kg
SODA ASH	Calcium reduction/pH adjustment								0,5 - 2 kg
BIO-BORE™	Biodegradable fluid			■			□		25 - 40 kg
POLY-BORE™	Borehole stabilizer	□						■	0,5 - 1,5 kg
NO-SAG®	Suspension enhancer	□					■		0,3 - 1,5 kg

Encountered Geology	Formation	Problems	Products		Recommended Fluid Formulation	
Cobbles		Caving Formation/Lost Circulation	IDP-696	N-SEAL™	30 - 40 kg/m <sup>3</sup>	5 - 13,6 kg/m <sup>3</sup>
		Excessive Torque	QUIK-TROL® LV		0,5 - 1 kg/m <sup>3</sup>	
Gravel		Caving Formations	IDP-696	N-SEAL™	30 - 35 kg/m <sup>3</sup>	5 - 13,6 kg/m <sup>3</sup>
		Cuttings Transport/Excessive Torque	QUIK-TROL® LV		0,5 - 1 kg/m <sup>3</sup>	
Sand & Gravel		Fluid Loss	IDP-696	N-SEAL™	25 - 35 kg/m <sup>3</sup>	5 - 13,6 kg/m <sup>3</sup>
		Borehole Stabilization	QUIK-TROL® LV		0,5 - 1 kg/m <sup>3</sup>	
Coarse Sand		Borehole Stabilization	IDP-696		25 - 30 kg/m <sup>3</sup>	
		Suspension/Cuttings Transport	QUIK-TROL® LV		0,5 - 1 kg/m <sup>3</sup>	
Fine Sand		Borehole Stabilization	IDP-696		25 - 30 kg/m <sup>3</sup>	
Sand & Clay		Clay Dispersion	IDP-696	EZ-MUD® GOLD	20 - 25 kg/m <sup>3</sup>	0,5 - 1 kg/m <sup>3</sup>
		Loss of Flow	QUIK-TROL® LV		0,5 - 1 kg/m <sup>3</sup>	
Dry Clay		Hydrating Solids	IDP-696	EZ-MUD® GOLD	20 - 25 kg/m <sup>3</sup>	0,5 - 1 kg/m <sup>3</sup>
		Loss of Flow	PENETROL®		1 - 2 liter/m <sup>3</sup>	
Swelling Clay		Hydrating Solids	IDP-696	EZ-MUD® GOLD	20 - 25 kg/m <sup>3</sup>	0,5 - 1 kg/m <sup>3</sup>
		High Torque	PENETROL®		1 - 2 liter/m <sup>3</sup>	
Sticky Clay		Bit Balling/Loss of Flow	IDP-696	PENETROL®	20 - 25 kg/m <sup>3</sup>	1 - 2 liter/m <sup>3</sup>
		Plugged Nozzles	AQUA-CLEAR® PFD	EZ-MUD® GOLD	0,25 - 0,5 liter/m <sup>3</sup>	0,5 - 1 kg/m <sup>3</sup>

Drilling Fluid Property	Test Equipment	Reading	Result	Recommended Action
Total Hardness	Hardness Indicator Strips	Hardness > 100 mg/l	Poor product yield & performance	Add Soda Ash to make-up water at 0,5 - 1 kg/m <sup>3</sup> to reach desired hardness of less than 100 mg/l and pH range of between 8.5-9.5
			Reduced viscosity production	
pH	pH Indicator Strips	pH < 7.0	Reduced mixing efficiency	
			Increased mixing time	
Mud Weight	Baroid Mud Balance	Mud Weight > 1.2 kg/liter	High pump pressure	Refresh whole fluid
			Whole Fluid Losses	Non-recirculating - increase pump rate, decrease penetration rate
Marsh Funnel Viscosity	Marsh Funnel	Low < 40 sec	Poor cuttings transport	Check hardness & pH, increase bentonite or polymer concentration
		High > 75 sec	No dropout of solids	Dilute or add thinner, reduce bentonite or polymer concentration
Filtration Rate	API Filterpress	Filtrate > 15 ml/30 min	Borehole instability & filtrate invasion	Add filtration control polymers
		Filtrate < 15 ml/30 min	← <b>Target Range</b>	Monitor and maintain fluid properties
Sand Content	Sand Content Test Kit	Sand content > 2%	Excessive wear to pumps	Non-recirculating - increase pump rate, decrease penetration rate
		Sand content < 2%	← <b>Target Range</b>	Monitor and maintain fluid properties

# Mudmaster



## Vertical Drilling

### Markets

- Waterwell
- Horizontal Directional Drilling
- Tunneling (Micro)
- Geothermal
- Core Drilling

### Capabilities

- Research and Development
- Customer Training Seminars
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- Quality Assured Production Wide Distribution
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