



Quick Reference Guide

U.S.Wats 1-800-259-7838

Email: tci@turbochem.com

Preventative Losses

Products	Mud Weights				Comments
	7.0 to 12.0	12.1 to 14.5	14.6 to 17.0	17.1+	
Premium Seal Fine	15	15	12	8	Pump sweeps while drilling depleted sands every 30' then periodically to T.D.
Premium Seal Coarse	0	0	0	0	
Turbo Phalt*	0	0	0	0	
Total ppb	15	15	12	8	

Premium Seal Fine can also be added to the entire mud system at 4-6 ppb to pre-treat differential sticking and/or mud loss.

Seepage Losses (15% or Less of Pump Output)

Products	Mud Weights				Comments
	7.0 to 12.0	12.1 to 14.5	14.6 to 17.0	17.1+	
Premium Seal Fine	10	10	10	8	Pump sweeps while drilling depleted sands every 30' then periodically to T.D.
Premium Seal Coarse	5	3	0	0	
Turbo Phalt*	5	5	5	5	
Total ppb	20	18	15	13	

MICRON SIZES	HYDROSTATIC PRESSURE	Kill Mud Weight, ppg
Clay and Bentonite	less than 1 CONSTANTS: PPG X FT X .052 = PSI SG X FT X .433 = PSI	= (SIDPP, psi ÷ .052 ÷ TVD, ft) + Mud Wt, ppg
Barite	2 - 60 PRESSURE, psi = Mud Weight X .052 X Depth, ft (TVD)	
Silt	2 - 74 EQUILANT MW = Pressure, psi ÷ Depth, ft ÷ .052	
Talcum Powder	5 - 50	
Kitchen Flour	1 - 80	
API Sand	greater than 74	
Human Hair	~ 100	
Premium Seal Fine	2 - 200	
Premium Seal Coarse	1 - 4000	
Turbo Phalt	less than 1 - 350	



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Partial Losses (16% to 50% of Pump Output)

Products	Mud Weights				Comments
	7.0 to 12.0	12.1 to 14.5	14.6 to 17.0	17.1+	
Premium Seal Fine	10	10	10	10	Pump sweeps as needed then every 100' of new hole or every 2-4 hours.
Premium Seal Coarse	10	8	5	0	
Turbo Phalt*	10	10	10	5	
Total ppb	30	28	25	15	

Total Loss of Returns

Products	Mud Weights				Comments
	7.0 to 12.0	12.1 to 14.5	14.6 to 17.0	17.1+	
Premium Seal Fine	15	15	10	10	Spot across loss zone. Allow hole to heal 6 hours. Stage to bottom and break circulation on bottom with another pill..
Premium Seal Coarse	25	20	15	10	
Turbo Phalt*	10	10	10	5	
Total ppb	50	45	35	25	

Note:

1. Sweep volume and product concentration should vary with hole size.

MARSH FUNNEL	NORMAL FORMATION PRESSURE	FRESH WATER GRADIENT	OVERBURDEN GRADIENT
Time for fresh water to drain = 26 secs ± ½ second per quart	465 psi/ft or 8.94 ppg	433 psi/ft	1.0 psi/ft