

Master Clear Seal-5®

Pulverized Powdery Inhibitor / Lubricant



Product Description

- Water, Oil or Synthetic-based mud additive
- Environmentally safe; passes LC50
- Special blend of polymers, starch, clays
- White color powder
- .66 to .75 specific gravity
- Slightly soluble in water
- Temperature stable to 300°F

Function

- Fluid loss / inhibition
- Deforming sealer
- Extrudes into formation
- Pulverized powdery lubricant



Benefits

- Dramatically lowers API / HPHT fluid loss
- Decreases wall cake thickness
- Retards water hydration on clay

Mixing Recommendations

- Master Clear Seal-5® can be mixed directly into the rig mixing hopper.
- Mix in concentration of 2 to 10 ppb in the entire mud system. For most applications, 2 to 4 ppb is sufficient.
- For viscous sweep, mix in concentration of 10 to 20 ppb.

HPHT LIGHTLY-DISPERSED MUD DYNAMIC



HPHT FILTRATION FILTER CAKES
250°F @ 500psi for 30 minutes

DYNAMIC FILTRATION FILTER CAKES
5 Darcy 20 Micron Filter Media
250°F 600 rpm @ 1000psi for 60 minutes

HPHT

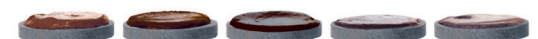
Robertson County tested on June 17, 2010

	Base	Base + 4 ppb Sulphonated Asphalt	Base + 4 ppb Treated Gilsonite	Base + 2 ppb Treated Gilsonite 2 ppb Clear Seal-5	Base + 4 ppb Clear Seal-5
Density	12.0 ppg				
	26	27	37	46	30
	19	22	30	31	20
	15	14	28	28	15
	13	12	25	25	13
	8	7	15	14	8
	7	6	14	13	7
PV @ 120F	7	5	7	15	10
YP	12	17	23	16	10
Gels 10s/10m	13/28	11/25	11/27	14/25	11/23
HPHT @ 250°F / ml.	53.0	43.0	42.0	23.0	21.0
Cake Wt. / g.	13	10	10	9	9
Cake Thickness / Inch.	5/32	2/32	2/32	1/32	1/32



DYNAMIC

TIME / Minutes	Fluid Loss / ml.				
Initial Spurt	10	8	8	4	1
15	36	23	20	10	9
30	48	48	44	24	20
45	60	54	52	30	24
60	66	64	60	35	30
Cake Wt. / g.	17	13	13	10	9
Cake Thickness / Inch.	7/32	4/32	4/32	2/32	2/32



Mud Masters Group

a division of Horizon Mud Company

See SDS for more product information.
24 hours: 1 (800) 395-9332 | www.mudmastersgroup.com