



TECHNICAL DATA SHEET

DRILLO-GEL

PRODUCT DESCRIPTION: Xantham Substitute

Drill-O-Gel provides Oil & Gas companies with an economical substitute for expensive Xantham. In addition to being price competitive, Drill-O-Gel provides better viscosity and a higher Yield Point than either Xantham or HEC (Refer to data and subsequent charts provided below).

FEATURES

- Better viscosity increase than xantham and HEC
- Lower cost than xantham & HEC
- Can use conventional (untreated) bentonite
- Higher yield point (cuttings removal) than xantham and HEC
- Inherent drag reduction capacity
- Easily produced, large supply

TYPICAL PHYSICAL PROPERTIES

➤ Physical State.....	Emulsion
➤ Color.....	White
➤ Boiling Point.....	125°C
➤ Flash Point.....	>70°C (closed cup)
➤ Melting/Freezing Point.....	84.04°C
➤ Density.....	1.12 g/cm ³
➤ pH.....	7.0-9.0
➤ Solubility in Water.....	Soluble
➤ Odor.....	Slight Odor
➤ Vapor Pressure.....	Not Available
➤ Viscosity.....	8000 mpa.s
➤ Evaporation Rate.....	Not Available
➤ Auto-ignition Temperature.....	Not Available

PACKAGING

Excelyte is shipped from the manufacturing facility and regional distribution centers in 5, 55 and 275 gallon containers. Custom packaging is available upon request. Bulk quantities are available.

DRILLOGEL Test Results (by Catalyst)

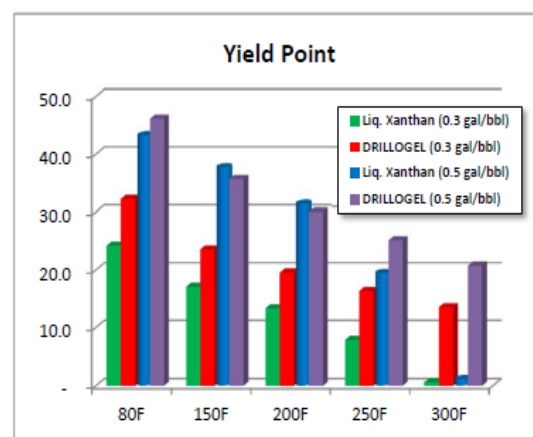
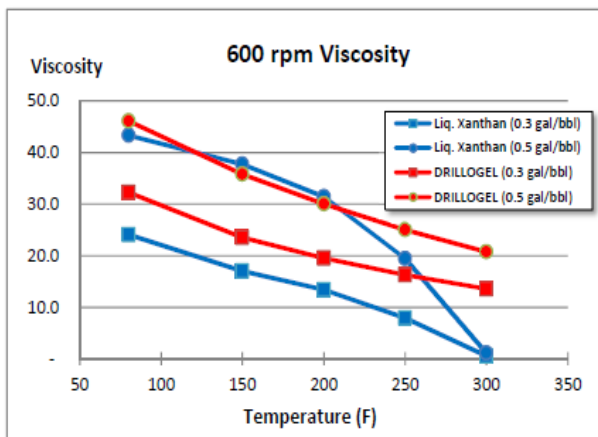


DRILLOGEL (DG-TE)

rpm	0.3 gal/bbl						0.5 gal/bbl				
	80F	150F	200F	250F	300F	350F	80F	150F	200F	250F	300F
600	32.25	23.49	19.53	16.30	13.56	0.85	46.08	35.79	30.05	25.06	20.76
300	47.61	37.50	32.41	26.75	20.82	0.15	58.69	54.00	46.24	41.69	32.80
200	59.14	48.04	42.02	34.74	26.22	0.06	90.93	74.67	64.31	54.62	42.10
100	88.61	74.22	65.79	53.33	38.15	0.11	128.12	111.34	95.42	85.28	62.39
60	133.22	113.42	101.09	79.95	53.79	0.20	215.69	183.26	156.22	128.40	89.17
30	225.72	194.15	173.58	132.39	81.36	0.40	504.76	316.10	266.09	213.23	135.55
10	468.26	403.84	358.07	255.65	131.40	1.03	756.43	630.79	518.29	412.02	219.13
6	779.42	666.90	583.48	395.97	174.35	1.96	1,307.76	1,069.86	860.54	632.17	282.38
3	1,473.44	1,239.28	1,057.45	653.82	234.49	4.35	3,068.04	2,127.83	1,839.61	1,023.52	312.98
1	3,373.90	2,720.60	2,245.38	1,193.40	272.87	12.50		4,356.40	3,073.28	1,621.61	
PV	15.36	14.01	12.88	10.45	7.26	(0.70)	12.61	18.21	16.19	16.63	12.04
YP	32.25	23.49	19.53	16.30	13.56	0.85	46.08	35.79	30.05	25.06	20.76
AV	16.13	11.75	9.77	8.15	6.78	0.43	23.04	17.90	15.03	12.53	10.38
YP/PV ratio	2.10	1.68	1.52	1.56	1.87	(1.21)	3.65	1.97	1.86	1.51	1.72

Liquid Xanthan (Integrity)

rpm	0.3 gal/bbl					0.5 gal/bbl				
	80	150	200	250	300	80F	150F	200F	250F	300F
600	24.13	17.03	13.40	7.95	0.64	43.32	37.72	31.44	19.48	1.19
300	36.42	26.43	21.06	10.95	0.39	70.98	63.92	54.57	30.47	3.80
200	46.95	34.06	27.13	12.78	0.06	95.16	86.02	74.04	39.24	7.43
100	71.54	53.03	41.60	16.18	0.11	150.79	141.21	121.94	58.32	8.32
60	107.44	80.47	61.29	19.36	0.20	237.22	227.61	195.92	84.56	14.82
30	183.85	135.34	99.40	24.26	0.40	427.43	420.13	349.01	132.95	18.76
10	395.24	268.80	1,844.42	26.51	1.03	956.39	936.27	737.81	238.31	27.74
6	667.58	425.76	278.74	23.01	1.96	1,657.30	1,681.46	1,212.03	365.51	42.11
3	1,258.24	737.73	447.01	4.64	4.35	3,301.00	3,243.23	2,194.22	618.63	82.20
1	2,835.47	1,470.72	759.98	12.50	12.50	8,098.60	7,396.76	4,631.22	1,228.11	189.20
PV	12.29	9.40	7.66	3.00	(0.25)	27.66	26.20	23.13	10.99	2.61
YP	24.13	17.03	13.40	7.95	0.64	43.32	37.72	31.44	19.48	1.19
AV	12.06	8.51	6.70	3.98	0.32	21.66	18.86	15.72	9.74	0.60
YP/PV ratio	1.96	1.81	1.75	2.65	(2.55)	1.57	1.44	1.36	1.77	0.46



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