Synthetic Graphite GRAPHITE FINE

Lubricating agent

BARITEWORLD

Product Information

Graphite Fine is a fine particle size lubricant used for drilling in water, oil or synthetic mud systems. It reduces differential pressure sticking tendencies. It can be used to control partial filtration in areas of severe circulation losses. It is completely inert and does not affect the rheological properties of the mud.

Properties

Physical Properties:			
Physical Aspect:	Gray powder	Chemical Analysis:	
Specific Gravity:	1.65 – 1.75 g/ml	Solubility in water:	Insoluble

Particle Distribution

D ₁₀ 3.894 μm		D ₅₀ 23.80 μm		<i>D</i> ₉₀ 57.44 μm	
0.375	0	6761	17.2	121.8	99.9
0.412	0.083	7422	18.8	133.7	99.97
0.452	0.23	8148	20.7	146.8	99998
0.496	0.44	8944	22.6	161.2	100
0.545	0.73	9819	24.8	176.9	100
0.598	1.07	10.78	27.1	194.2	100
0.657	1.46	11.83	29.6	213.2	100
0.721	1.88	12.99	32.2	234.1	100
0.791	2.31	14.26	35.0	256.9	100
0.869	2.75	15.65	37.8	282.1	100
0.954	3.17	17.18	40.5	309.6	100
1047	3.58	18.86	43.2	339.9	100
1149	3.97	20.71	45.8	373.1	100
1261	4.33	22.73	48.6	409.6	100
1385	4.67	24.95	51.6	449.7	100

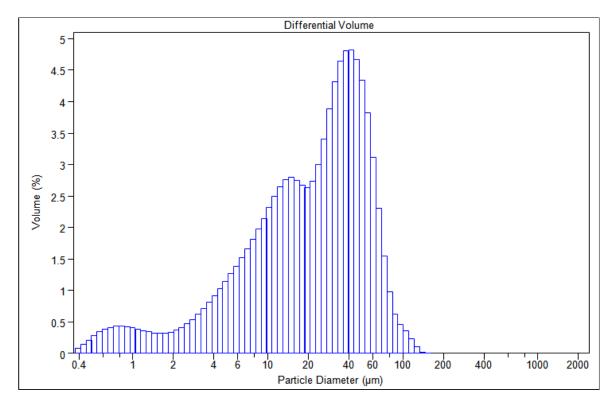
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1520	5.00	27.39	55.0	493.6	100
1669	5.31	30.07	58.8	541.9	100
1832	5.64	33.01	63.2	594.9	100
2011	5.98	36.24	67.8	653.0	100
2208	6.35	39.78	72.6	716.9	100
2423	6.76	43.67	77.4	786.9	100
2660	7.23	47.94	82.1	863.9	100
2920	7.78	52.63	86.4	948.3	100
3206	8.40	57.77	90.2	1041	100
3519	9.11	63.42	93.4	1143	100
3863	9.93	69.62	95.7	1255	100
4241	10.8	76.43	97.2	1377	100
4656	11.9	83.90	98.2	1512	100
5111	13.0	92.10	98.8	1660	100
5611	14.3	101.1	99.3	1822	100
6159	15.7	111.0	99.6	2000	100

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Particle Distribution Chart



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Functions.

- It can be used in combination with other materials to control lost circulation if severe.
- The product increases lubrication, reduces torque and friction in all mud systems.

Advantages.

- It can be used in any type of fluid, be it water-based, oil-based or synthetic.
- Inert material, without adverse effects on the rheology of the mud
- Does not require other additives, it presents ease of mixing and dispersion in the system.
- It maintains stability even at high temperatures.

Limitations

- It requires monitoring of vibrating screens.
- Insoluble in acid and water.
- It is not suitable for sections of open wells where acid solubility is required.

Application details.

GRAPHITE FINE is used as a powerful lubricating agent. The recommended treatment is 15 to 20 lb / bbl, for more severe cases it is 20 to 50 lb / bbl.

GRAPHITE FINE should be handled like any other industrial chemical product, with personal protection equipment and observing the precautions indicated on the Safety Data Sheet.

Packaging and Storage.

The product is presented in 25 kg multi-layer paper bags. It is recommended to store in cool and dry places, away from any source of ignition.