

Synthetic Graphite

GRAPHITE MEDIUM *Lubricating agent*

BARITEWORLD

Product Information

Graphite Medium is a medium 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
Specific Gravity: 1.65 – 1.75 g/ml

Chemical Analysis:

Solubility in water: Insoluble

Particle Distribution

<i>D</i> ₁₀	<i>D</i> ₅₀	<i>D</i> ₉₀
9,265 µm	179,9 µm	298,1 µm

Channel diameter (Lower) µm	Cum. < Volume %	Channel diameter (Lower) µm	Cum. < Volume %	Channel diameter (Lower) µm	Cum. < Volume %
0.375	0	6.761	7.82	121.8	36.9
0.412	0.026	7.422	8.47	133.7	40.5
0.452	0.072	8.148	9.12	146.8	43.7
0.496	0.14	8.944	9.76	161.2	46.6
0.545	0.23	9.819	10.4	176.9	49.4
0.598	0.35	10.78	11.1	194.2	53.0
0.657	0.48	11.83	11.7	213.2	58.4
0.721	0.62	12.99	12.4	234.1	66.2
0.791	0.77	14.26	13.1	256.9	75.8

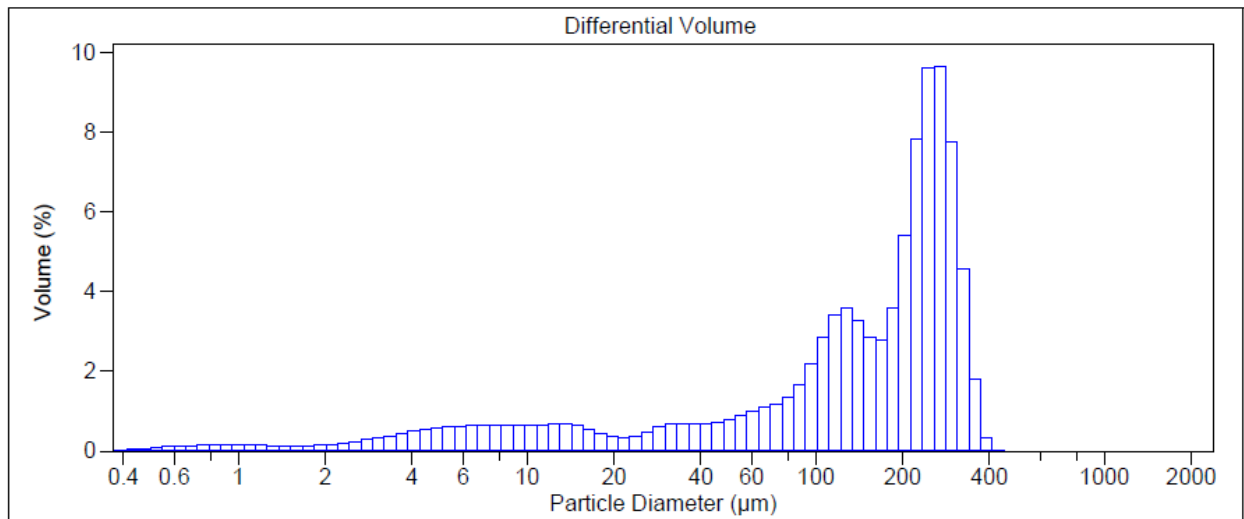
Synthetic Graphite

GRAPHITE MEDIUM *Lubricating agent*

BARITEWORLD

0.869	0.93	15.65	13.7	282.1	85.5
0.954	1.09	17.18	14.3	309.6	93.2
1.047	1.24	18.86	14.8	339.9	97.8
1.149	1.40	20.71	15.1	373.1	99.6
1.261	1.54	22.73	15.4	409.6	99.97
1.385	1.68	24.95	15.8	449.7	100
1.520	1.82	27.39	16.3	493.6	100
1.669	1.96	30.07	16.9	541.9	100
1.832	2.10	33.01	17.6	594.9	100
2.011	2.26	36.24	18.3	653.0	100
2.208	2.44	39.78	19.0	716.9	100
2.423	2.64	43.67	19.7	786.9	100
2.660	2.88	47.94	20.4	863.9	100
2.920	3.17	52.63	21.2	948.3	100
3.206	3.50	57.77	22.1	1041	100
3.519	3.88	63.42	23.1	1143	100
3.863	4.32	69.62	24.2	1255	100
4.241	4.82	76.43	25.4	1377	100
4.656	5.36	83.90	26.7	1512	100
5.111	5.94	92.10	28.4	1660	100
5.611	6.55	101.1	30.6	1822	100
6.159	7.18	111.0	33.4	2000	100

Particle Distribution Chart



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.

Synthetic Graphite

GRAPHITE MEDIUM *Lubricating agent*

BARITEWORLD

Application details.

GRAPHITE MEDIUM 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 MEDIUM 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.