

Shri Sunil Bhe. dolen
12/01/25

No. BP/F/302 B/Direct/OFI
Ball Powder Section
Dt. 03/06/2025

Sub: Data for SDOTE/OTE cases in vender registration portal
Ref: Letter No. 3210/Gen/PV/M1, dated-29/05/2025

With reference to the above, the Manufacturing technology and Testing/Inspection facility for Graphite Dry Sulphur Free are available in the JSS 9620-01: 2021 (Fourth Revision) and the same may be provided:-

A) Manufacturing technology :

1. SCOPE

1.1 Graphite Dry Sulphur Free of sizes below 75 micron.

1.2 Graphite Dry shall be suitable for use in Pyrotechnic Compositions.

1.3 Graphite Dry and Graphite Dry Sulphur Free shall be suitable for use in propellant manufacture, pelleting of Composition Exploding and initiatory compositions and for such other purposes where the presence of Sulphur in Graphite Dry is not desirable.

2. MATERIAL/FINISH

2.1 The material shall be of a good uniform, commercial quality (synthetic or natural), and ground fine flaky powder. It shall be free from gritty particles, foreign matter, non-graphite carbon and visible impurities. It shall exhibit the characteristic soapy feeling when rubbed between fingers.

2.2 The size of the material may be one of these indicated below: Size below 75 micron

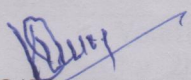
B) Testing/ Inspection Facility: Product Specification

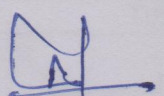
S.No.	Characteristics	Test method	Specified limit
1	Volatile matter after drying for 2hr at $105^{\circ}\text{C} \pm 2^{\circ}\text{C}$ % by mass	JSG 0112	0.25 Max
2	PH of aqueous extract	JSG 0112	8.0 Max 5.0Min
3	Matter soluble in cold water % by mass	JSS 9620-01:2021 (IV revision)	0.1 Max
4	Matter soluble in Ethyl Ether % by mass	-Do-	0.25 Max
5	Sulphur and compound of sulphur calculated as Sulphuric acid % by mass	-Do-	0.25 Max
6.	Ash % Mass	-Do-	1.0 Max
7	Gritty particles in the ash (Ash after extraction with Aqua Regia) retained on 63 micrometre IS Sieve % by mass	-Do-	0.03 Max
8	Sieving requirement % by mass for size 75 micrometre IS Sieve.	-Do-	Nil

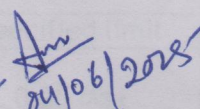
Testing Facility: -

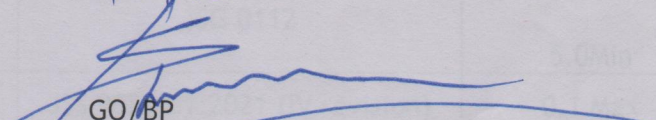
The following test equipment's are essential/desirable for the testing of Graphite dry sulphur free. The firm must be having all In-house/own the essential facilities.

S.No.	Equipment	Capacity	Essential/Desirable
1.	Electrical balance	Max 220gm or higher least count 0.0001gm	Essential
2.	Desiccator	5lit or higher	Essential
3.	Electric drying oven	300°C or higher	Essential
4.	Muffle furnace	1200°C or higher	Essential
5.	PH meter	-	Essential
6.	Water bath	-	Desirable
7	Testing equipment	Burette, Pipette, Measuring cylinder, Beaker, Conical flask, titration flask, moisture dish, Silica crucible. Paper thimble, 42Whatmen filter paper	Essential
8	Bunsen burner, sand bath	-	Desirable
9	Sieve 63 and 75 micrometre IS sieve	-	Essential
10	Soxhlet for extraction unit	-	Essential


OIC/BP (Member)


OIC/LY (Member)
04/06/2015


OIC/QC (MAT) (Member)


GO/BP
Chairman