

**Technical Data Sheet**

## Sulphur Bentonite

Sulphur Bentonite is a combination of pure sulphur and Bentonite clay. It is used as a secondary nutrient and also to correct alkaline soil problems. Sulphur is one of the 17 essential plant nutrients and it helps in the formation of essential enzymes and plant proteins

**Application:**

bentonite is a soil applied fertilizer as a plant nutrient source and as a soil amending product.

### General Specification of Lump Sulphur

Item	Component	Unit	Value Limit		Test Method
			Minimum	Maximum	
1	Shape	—	Pastille		Visual
2	Color	—	Earth Tone-Green		Visual
3	Density	Kg/m3	1250±150		ASTM D 7481
4	Size	—	<ul style="list-style-type: none"> <li>Min 75% between 2and 5 mm</li> <li>Less than 0.3 mm&lt;1%</li> </ul>		ASTM C 136
5	Sulfur Content	% wt	85	—	ASTM D 4239
6	Bentonite Content	% wt	---	15	ASTM D 4239
7	Moisture Content	% wt	---	0.5	ASTM D 4643
8	Disintegration Rate in Water	—	Wet sieve test for 24 hours: Min % 30 to pass through a No. 40 U.S. screen Min %50 to pass through a NO. 20 U.S screen		Keg river Method
			Keg River Test Method For Disintegration: 5 gr of each sample activated by 10 mml water for 24 hours. Samples of products delivered to units were degraded with water for 24 hours.Samples were washed through a 20 & 40 mesh screen to measure degree of disintegration. The less degraded portion is retained on the mesh.Degraded Particles smaller than 40 mesh provide very high surface area exposure to soil microbes for faster conversion to plant usable sulfate. Finer Particles yield better results.		
9	Heavy Metals:	ppmw	---	ISO/TS 16965	
	Arsenic		50		
	Lead		50		
	Cadmium		25		
	Nickel		100		
	Mercury		1		

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**Typical Analysis of Sulphur Bentonite Product**

Sample		1	2	3	4
Shape		Pastille (Half Sphere)	Pastille (Half Sphere)	Pastille (Half Sphere)	Pastille (Half Sphere)
Color		Earth Tone-Green	Earth Tone-Green	Earth Tone-Green	Earth Tone-Green
Density(kg/m3)		1230	1300	1270	1340
Bentonite Content(%wt)		10.9	11	10.2	12
Sulfur Content(% wt)		89.1	89	89.8	88
Moisture Content( wt%)		0.1	0.19	0.2	0.17
Size	Between 2and 5 mm (%)	85	83	87	80
	Less than 0.3 mm(%)	0.1	0.4	0.2	0.6
Disintegration Ratein Water	% to pass through No. mesh 40	52	55	46	42
	% to pass through No. mesh 20	68	75	63	57
Heavy Metals	Unit				
Arsenic	ppmw	<50	<50	<50	<50
Lead		<50	<50	<50	<50
Cadmium		<25	<25	<25	<25
Nickel		<100	<100	<100	<100
Mercury		<1	<1	<1	<1