

PRODUCT DATA SHEET:

Stearates - High Purity Grade



Life Sciences

Stearates - Magnesium Stearate - Vegetable

Magnesium - 919-G: Pharmaceutical grade magnesium stearates are used as binders, lubricants and tablet release agents. They are also used in cosmetics as anti-caking agents, binding agents, dusting additives, emulsifying agents, gelling agents, thickening agents and in the suspension of pigments.

TYPICAL PHYSICAL PROPERTIES	
Melting Point (°C)	130 - 145
Bulk Density (g/ml)	0.15
Median Particle Size (micron)	11.1

BSI Code: 919-G

C.A.S. Number: 557-04-0

Monographs: USP / NF / EP / JP

Certifications: Kosher

Particle Size Distribution: See Page 2

TYPICAL CHEMICAL PROPERTIES	
Grade	Vegetable
Oxide (%)	6.8 - 8.3
Fatty Acid Solidification (°C)	53
Acid Value of Fatty Acid (mg KOH/gram)	195 - 210
Moisture (max %)	6.0
Soluble Salts (%)	0.1
Lead - Pb (max ppm)	10
Arsenic - AS (max ppm)	3
Nickel - Ni (max ppm)	5
Cadmium - Cd (max ppm)	3
Magnesium - Mg (5)	4.0 - 5.0
Heavy Metals (max ppm)	20
Chloride (%)	0.1
Sulfate (max %)	1.0

Storage: Store in cool location, keep away from heat and direct sunlight. Keep container sealed.

Handling Precautions: Please refer to the Magnesium Stearate Safety Data Sheet.

While the data presented in this information sheet reflects the present state of our knowledge and is believed to be accurate and reliable, it is provided without liability as a courtesy only and is to be used and relied upon at the reader's sole risk. Readers should make their own determination as to the suitability of any product for a particular use. We recommend that readers conduct their own product trials before using any particular product. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties rights. The recommendations contained herein do not constitute a warranty, either express or implied, as to the fitness or suitability of any product for a particular purpose. For more information and assistance, please contact Technical Services at BSL_regulatory_dept@brenntag.com

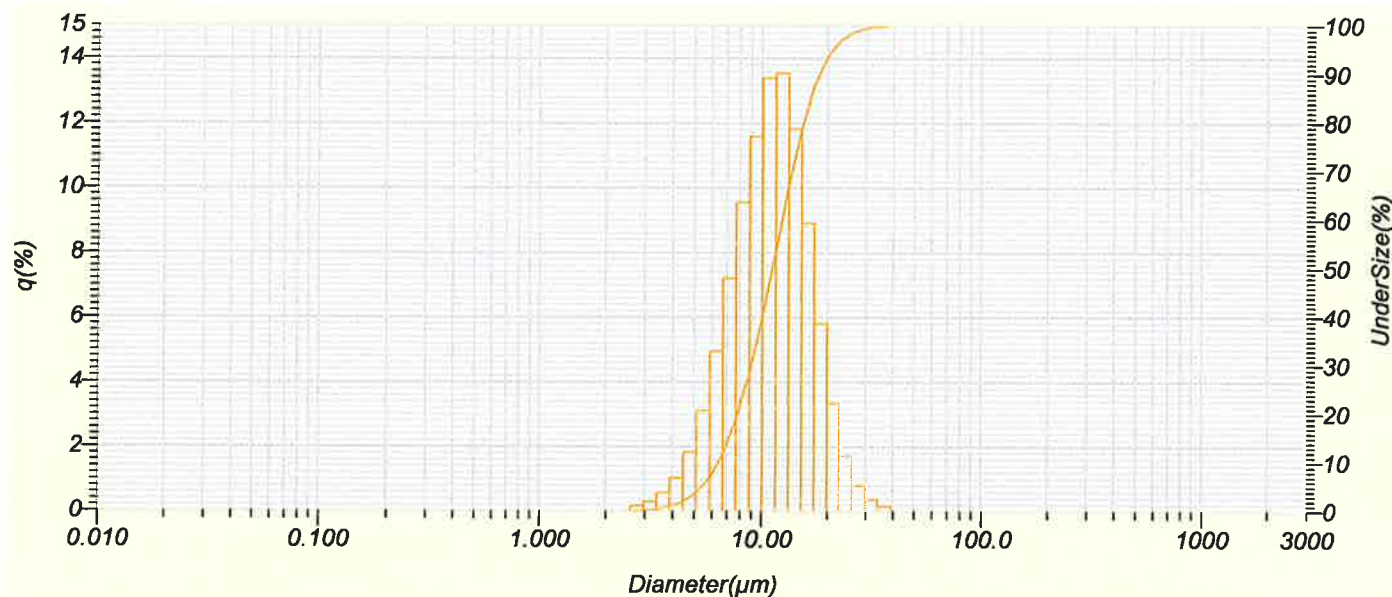
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HORIBA LA950 for Windows [Wet] Ver3.55 Laser Light Scattering Particle Size Analysis

BSI

Sample Name : 919-G Magnesium Stearate
 ID# : 201708161140590
 Transmittance(R) : 80.0(%)
 Transmittance(B) : 79.5(%)
 Circulation Speed : 3
 Agitation Speed : 2
 Ultra Sonic : OFF
 Form of Distribution : Manual
 Distribution Base : Volume
 Material : Magenium Stearate
 Source : 0.5g of spl in 20mL IPA
 Lot Number : S0361
 Test or Assay. Number :
 Refractive Index (R) : Magnesium Stearate[919-G(1.800 - 0.000i),Water(1.333)]
 Refractive Index (B) : Magnesium Stearate[919-G(1.800 - 0.000i),Water(1.333)]

Median Size : 11.15046(μ m)
 Mean Size : 11.87920(μ m)
 Std.Dev. : 4.8746(μ m)
 Diameter on Cumulative % : (1)10.00 (%) - 6.3800(μ m)
 : (2)50.00 (%) - 11.1505(μ m)
 : (3)90.00 (%) - 18.2680(μ m)
 Cumulative % on Diameter :



No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	24	0.259	0.000	0.000	47	5.667	3.100	6.956	70	133.103	0.000	100.000
2	0.013	0.000	0.000	25	0.296	0.000	0.000	48	6.720	4.927	11.884	71	152.453	0.000	100.000
3	0.015	0.000	0.000	26	0.339	0.000	0.000	49	7.697	7.205	19.089	72	174.616	0.000	100.000
4	0.017	0.000	0.000	27	0.389	0.000	0.000	50	8.816	9.540	28.629	73	200.000	0.000	100.000
5	0.020	0.000	0.000	28	0.445	0.000	0.000	51	10.097	11.585	40.214	74	229.075	0.000	100.000
6	0.022	0.000	0.000	29	0.510	0.000	0.000	52	11.565	13.385	53.599	75	262.376	0.000	100.000
7	0.026	0.000	0.000	30	0.584	0.000	0.000	53	13.246	13.532	67.132	76	300.518	0.000	100.000
8	0.029	0.000	0.000	31	0.669	0.000	0.000	54	15.172	11.826	78.958	77	344.206	0.000	100.000
9	0.034	0.000	0.000	32	0.766	0.000	0.000	55	17.377	8.903	87.862	78	394.244	0.000	100.000
10	0.039	0.000	0.000	33	0.877	0.000	0.000	56	19.904	5.807	93.669	79	451.556	0.000	100.000
11	0.044	0.000	0.000	34	1.005	0.000	0.000	57	22.797	3.326	96.995	80	517.200	0.000	100.000
12	0.051	0.000	0.000	35	1.151	0.000	0.000	58	26.111	1.705	98.700	81	592.387	0.000	100.000
13	0.058	0.000	0.000	36	1.318	0.000	0.000	59	29.907	0.799	99.499	82	678.504	0.000	100.000
14	0.067	0.000	0.000	37	1.510	0.000	0.000	60	34.255	0.351	99.850	83	777.141	0.000	100.000
15	0.076	0.000	0.000	38	1.729	0.000	0.000	61	39.234	0.150	100.000	84	890.116	0.000	100.000
16	0.087	0.000	0.000	39	1.981	0.000	0.000	62	44.938	0.000	100.000	85	1019.515	0.000	100.000
17	0.100	0.000	0.000	40	2.269	0.000	0.000	63	51.471	0.000	100.000	86	1167.725	0.000	100.000
18	0.115	0.000	0.000	41	2.599	0.000	0.000	64	58.953	0.000	100.000	87	1337.481	0.000	100.000
19	0.131	0.000	0.000	42	2.976	0.154	0.154	65	67.523	0.000	100.000	88	1531.914	0.000	100.000
20	0.150	0.000	0.000	43	3.409	0.295	0.450	66	77.339	0.000	100.000	89	1754.613	0.000	100.000
21	0.172	0.000	0.000	44	3.905	0.556	1.006	67	88.583	0.000	100.000	90	2009.687	0.000	100.000
22	0.197	0.000	0.000	45	4.472	1.025	2.030	68	101.460	0.000	100.000	91	2301.841	0.000	100.000
23	0.226	0.000	0.000	46	5.122	1.826	3.856	69	116.210	0.000	100.000	92	2636.467	0.000	100.000