

PRODUCT DATA SHEET:

Stearates - High Purity Grade



Life Sciences

Stearates - Magnesium Stearate - Vegetable

Magnesium - 2315-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)	0.16
Surface Area (m ² /g max)	6
Median Particle Size (micron)	11.9

BSI Code: 2315-G

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

Monographs: NF / USP / EP / JP / FCC

Particle Size Distribution: See Page 2

TYPICAL CHEMICAL PROPERTIES	
Grade	Vegetable
Oxide (%)	6.65 - 8.3
Free Fatty Acid (max %)	1.5
Fatty Acid Solidification (°C)	53
Acid Value of Fatty Acid (mg KOH/gram)	198 - 210
Moisture (max %)	4.0
Soluble Salts (%)	0.1
Lead - Pb (max ppm)	10
Arsenic - AS (max ppm)	3
Nickel - Ni (max ppm)	5
Cadmium - Cd (max ppm)	3
Heavy Metals (max ppm)	20
Chloride (%)	0.1
Sulfate (%)	0.5

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.

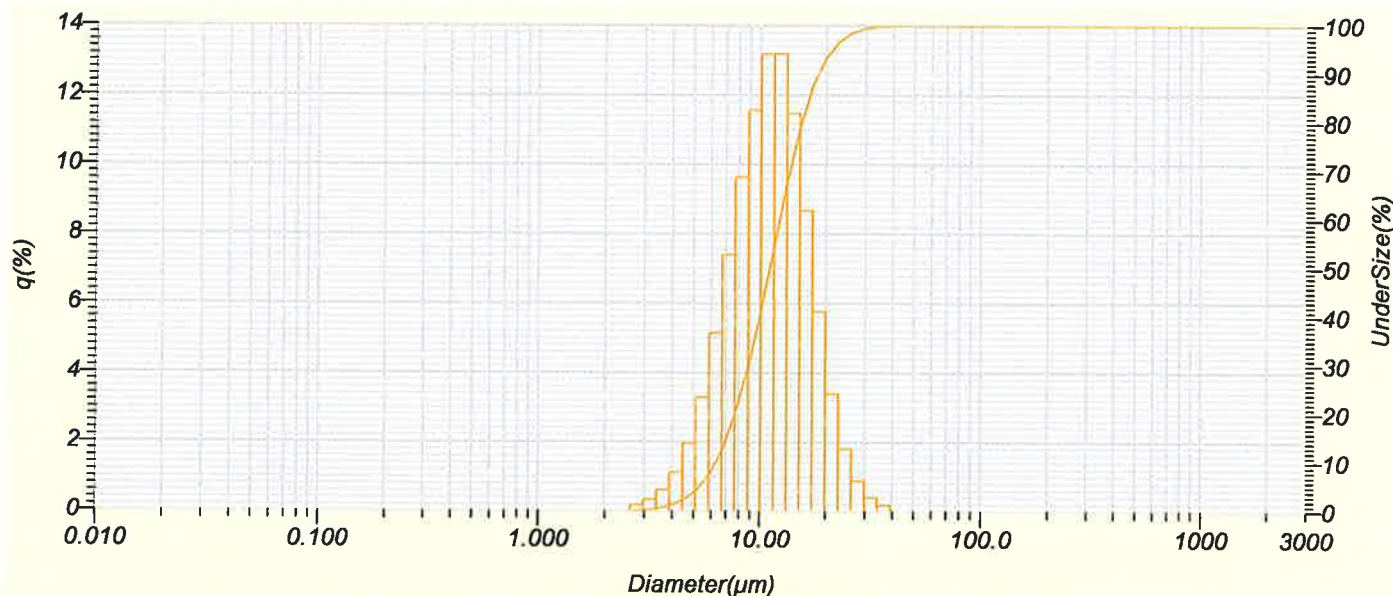
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Brenntag Specialties, LLC / 1 Cragwood Rd, Suite 302, South Plainfield, NJ 07080 / 800.732.0562

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

BSI

Sample Name	: 2315 Magenisum Stearate	Median Size	: 11.06166(μm)
ID#	: 201007080023428	Mean Size	: 11.84360(μm)
Transmittance(R)	: 83.9(%)	Std.Dev.	: 4.9746(μm)
Transmittance(B)	: 82.4(%)	Diameter on Cumulative %	: (1)10.00 (%) - 6.2790(μm)
Circulation Speed	: 3		: (2)50.00 (%) - 11.0617(μm)
Agitation Speed	: 2		: (3)90.00 (%) - 18.3774(μm)
Ultra Sonic	: OFF	Cumulative % on Diameter	:
Form of Distribution	: Manual		
Distribution Base	: Volume		
Material	: Magenisum Stearate		
Source	: 0.5g and 20.0mL of IPA		
Lot Number	: M9SV60565		
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)]		



No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	24	0.259	0.000	0.000	47	5.867	3.274	7.435	70	133.103	0.000	100.000
2	0.013	0.000	0.000	25	0.296	0.000	0.000	48	6.720	5.129	12.564	71	152.453	0.000	100.000
3	0.015	0.000	0.000	26	0.339	0.000	0.000	49	7.697	7.387	19.951	72	174.616	0.000	100.000
4	0.017	0.000	0.000	27	0.389	0.000	0.000	50	8.816	9.642	29.593	73	200.000	0.000	100.000
5	0.020	0.000	0.000	28	0.445	0.000	0.000	51	10.097	11.554	41.147	74	229.075	0.000	100.000
6	0.022	0.000	0.000	29	0.510	0.000	0.000	52	11.565	13.170	54.317	75	262.376	0.000	100.000
7	0.026	0.000	0.000	30	0.584	0.000	0.000	53	13.246	13.178	67.496	76	300.518	0.000	100.000
8	0.029	0.000	0.000	31	0.669	0.000	0.000	54	15.172	11.466	78.962	77	344.206	0.000	100.000
9	0.034	0.000	0.000	32	0.766	0.000	0.000	55	17.377	8.670	87.632	78	394.244	0.000	100.000
10	0.039	0.000	0.000	33	0.877	0.000	0.000	56	19.904	5.744	93.376	79	451.556	0.000	100.000
11	0.044	0.000	0.000	34	1.005	0.000	0.000	57	22.797	3.382	96.758	80	517.200	0.000	100.000
12	0.051	0.000	0.000	35	1.151	0.000	0.000	58	26.111	1.797	98.555	81	592.387	0.000	100.000
13	0.058	0.000	0.000	36	1.318	0.000	0.000	59	29.907	0.676	99.431	82	678.504	0.000	100.000
14	0.067	0.000	0.000	37	1.510	0.000	0.000	60	34.255	0.397	99.828	83	777.141	0.000	100.000
15	0.076	0.000	0.000	38	1.729	0.000	0.000	61	39.234	0.172	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	0.169	0.169	65	67.523	0.000	100.000	88	1531.914	0.000	100.000
20	0.150	0.000	0.000	43	3.409	0.323	0.492	66	77.339	0.000	100.000	89	1754.613	0.000	100.000
21	0.172	0.000	0.000	44	3.905	0.606	1.098	67	88.583	0.000	100.000	90	2009.687	0.000	100.000
22	0.197	0.000	0.000	45	4.472	1.108	2.206	68	101.460	0.000	100.000	91	2301.841	0.000	100.000
23	0.226	0.000	0.000	46	5.122	1.954	4.160	69	116.210	0.000	100.000	92	2636.467	0.000	100.000