

## PRODUCT DATA SHEET:

### Stearates - High Purity Grade



Life Sciences

#### Stearates - Magnesium Stearate - Tallow

**Magnesium - 2311-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 <sup>2</sup> /g max)	6
Median Particle Size (micron)	11.6

**BSI Code:** 2311-G

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

**Monographs:** NF / USP / EP / JP / FCC

**Particle Size Distribution:** See Page 2

TYPICAL CHEMICAL PROPERTIES	
Grade	Tallow
Oxide (%)	6.65 - 8.3
Free Fatty Acid (max %)	1.5
Fatty Acid Solidification (°C)	53
Acid Value of Fatty Acid (mg KOH/gram)	195 - 210
Moisture (max %)	4.0
Soluble Salts (%)	0.1
Lead - Pb (max ppm)	5
Arsenic - AS (max ppm)	3
Nickel - Ni (max ppm)	5
Cadmium - Cd (max ppm)	1
Heavy Metals (max ppm)	10
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.

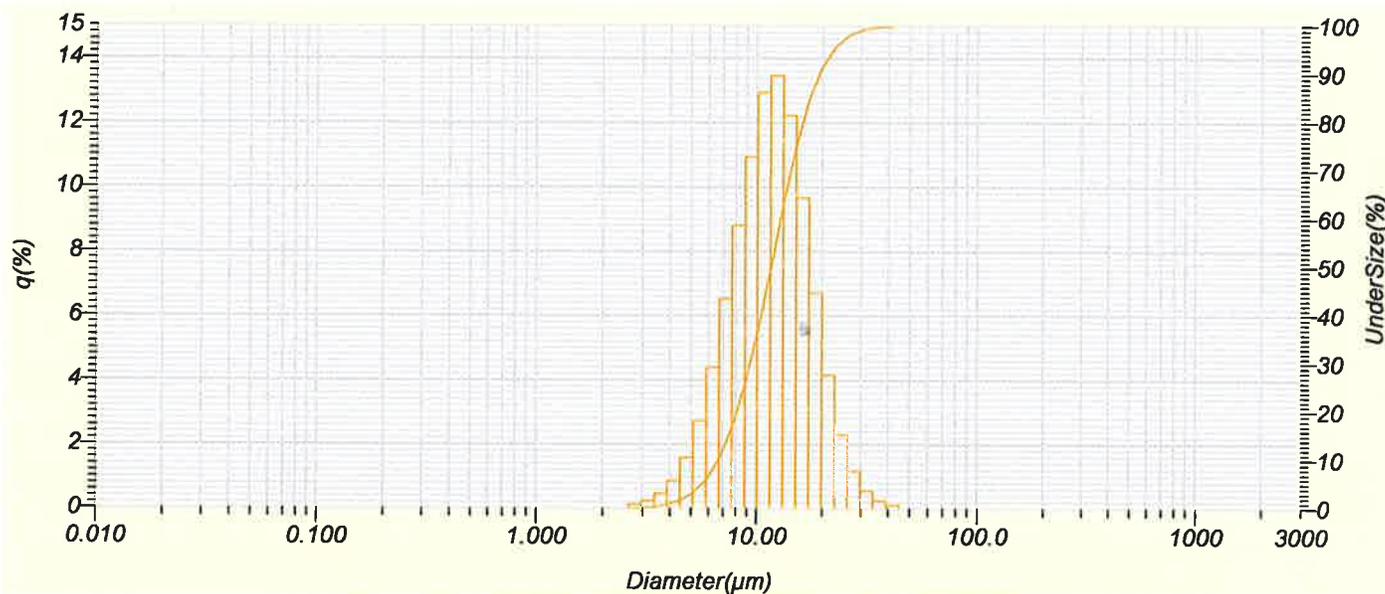
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**Brenntag Specialties, LLC / 1 Cragwood Rd, Suite 302, South Plainfield, NJ 07080 / 800.732.0562**

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

## BSI

Sample Name	: 2311 Magenisum Stearate	Median Size	: 11.62485(μm)
ID#	: 201007080033429	Mean Size	: 12.46428(μm)
Transmittance(R)	: 80.8(%)	Std.Dev.	: 5.2753(μm)
Transmittance(B)	: 79.4(%)	Diameter on Cumulative %	: (1)10.00 (%) - 6.6513(μm)
Circulation Speed	: 3		: (2)50.00 (%) - 11.6248(μm)
Agitation Speed	: 2		: (3)90.00 (%) - 19.2958(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	: MGS80156		
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	2.710	5.952	70	133.103	0.000	100.000
2	0.013	0.000	0.000	25	0.296	0.000	0.000	48	6.720	4.378	10.331	71	152.453	0.000	100.000
3	0.015	0.000	0.000	26	0.339	0.000	0.000	49	7.697	6.512	16.843	72	174.616	0.000	100.000
4	0.017	0.000	0.000	27	0.389	0.000	0.000	50	8.816	8.796	25.639	73	200.000	0.000	100.000
5	0.020	0.000	0.000	28	0.445	0.000	0.000	51	10.097	10.926	36.565	74	229.075	0.000	100.000
6	0.022	0.000	0.000	29	0.510	0.000	0.000	52	11.565	12.923	49.488	75	262.376	0.000	100.000
7	0.026	0.000	0.000	30	0.584	0.000	0.000	53	13.246	13.456	62.943	76	300.518	0.000	100.000
8	0.029	0.000	0.000	31	0.669	0.000	0.000	54	15.172	12.218	75.161	77	344.206	0.000	100.000
9	0.034	0.000	0.000	32	0.766	0.000	0.000	55	17.377	9.665	84.826	78	394.244	0.000	100.000
10	0.039	0.000	0.000	33	0.877	0.000	0.000	56	19.904	6.706	91.532	79	451.556	0.000	100.000
11	0.044	0.000	0.000	34	1.005	0.000	0.000	57	22.797	4.131	95.663	80	517.200	0.000	100.000
12	0.051	0.000	0.000	35	1.151	0.000	0.000	58	26.111	2.291	97.955	81	592.387	0.000	100.000
13	0.058	0.000	0.000	36	1.318	0.000	0.000	59	29.907	1.159	99.114	82	678.504	0.000	100.000
14	0.067	0.000	0.000	37	1.510	0.000	0.000	60	34.255	0.542	99.656	83	777.141	0.000	100.000
15	0.076	0.000	0.000	38	1.729	0.000	0.000	61	39.234	0.240	99.896	84	890.116	0.000	100.000
16	0.087	0.000	0.000	39	1.981	0.000	0.000	62	44.938	0.104	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	0.118	0.118	65	67.523	0.000	100.000	88	1531.914	0.000	100.000
20	0.150	0.000	0.000	43	3.409	0.235	0.353	66	77.339	0.000	100.000	89	1754.613	0.000	100.000
21	0.172	0.000	0.000	44	3.905	0.457	0.810	67	88.583	0.000	100.000	90	2009.687	0.000	100.000
22	0.197	0.000	0.000	45	4.472	0.863	1.673	68	101.460	0.000	100.000	91	2301.841	0.000	100.000
23	0.226	0.000	0.000	46	5.122	1.569	3.242	69	116.210	0.000	100.000	92	2636.467	0.000	100.000