

PRODUCT DATA SHEET:

Stearates - High Purity Grade



Life Sciences

Stearates - Calcium Stearate - Tallow

Calcium - 2307-G: Tallow grade calcium stearate is used as a lubricant, mold release agent, anti-caking agent, emulsifying agent, water repellent and thickening agent.

TYPICAL PHYSICAL PROPERTIES	
Melting Point (°C)	145 - 155
Bulk Density (g/ml)	0.19
Median Particle Size (micron)	12.9

BSI Code: 2307-G

C.A.S. Number: 1592-23-0

Monographs: FCC

Particle Size Distribution: See Page 2

TYPICAL CHEMICAL PROPERTIES	
Grade	Tallow
Oxide (%)	9.0 - 10.5
Free Fatty Acid (max %)	3.0
Moisture (max %)	4.0
Soluble Salts (%)	0.1
Lead - Pb (max ppm)	2
Arsenic - AS (max ppm)	3
Heavy Metals (max ppm)	10

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

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

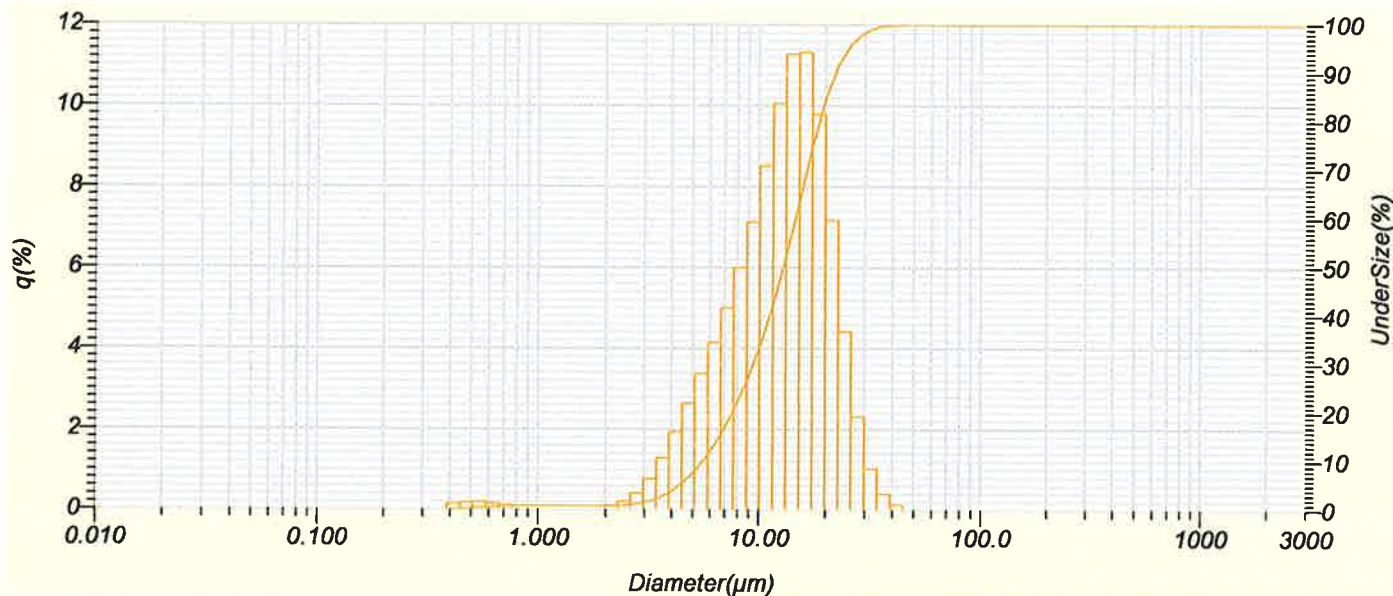
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HORIBA LA950 for Windows [Wet] Ver3.55 Laser Light Scattering Particle Size Analysis

BSI

Sample Name	: 2307-G Calcium Stearate	Median Size	: 12.85244(μm)
ID#	: 201510021534545	Mean Size	: 13.45343(μm)
Transmittance(R)	: 76.4(%)	Std.Dev.	: 6.4970(μm)
Transmittance(B)	: 76.7(%)	Diameter on Cumulative %	: (1)10.00 (%) - 5.5373(μm)
Circulation Speed	: 3		: (2)50.00 (%) - 12.8524(μm)
Agitation Speed	: 2		: (3)90.00 (%) - 22.0543(μm)
Ultra Sonic	: OFF	Cumulative % on Diameter	:
Form of Distribution	: Manual		
Distribution Base	: Volume		
Material	: Calcium Stearate		
Source	: 0.5g of sample in 20mL of IPA		
Lot Number	: CAS-133209		
Test or Assay. Number	:		
Refractive Index (R)	: Calcium Stearate[Calcium Stearate(1.460 - 0.000i),Water(1.333)]		
Refractive Index (B)	: Calcium Stearate[Calcium Stearate(1.460 - 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	3.365	11.433	70	133.103	0.000	100.000
2	0.013	0.000	0.000	25	0.296	0.000	0.000	48	6.720	4.132	15.565	71	152.453	0.000	100.000
3	0.015	0.000	0.000	26	0.339	0.000	0.000	49	7.697	4.994	20.560	72	174.616	0.000	100.000
4	0.017	0.000	0.000	27	0.389	0.000	0.000	50	8.816	5.989	26.549	73	200.000	0.000	100.000
5	0.020	0.000	0.000	28	0.445	0.137	0.137	51	10.097	7.116	33.665	74	229.075	0.000	100.000
6	0.022	0.000	0.000	29	0.510	0.173	0.310	52	11.565	8.511	42.176	75	262.376	0.000	100.000
7	0.026	0.000	0.000	30	0.584	0.177	0.487	53	13.246	10.061	52.237	76	300.518	0.000	100.000
8	0.029	0.000	0.000	31	0.669	0.149	0.636	54	15.172	11.264	63.501	77	344.206	0.000	100.000
9	0.034	0.000	0.000	32	0.766	0.107	0.743	55	17.377	11.312	74.813	78	394.244	0.000	100.000
10	0.039	0.000	0.000	33	0.877	0.000	0.743	56	19.904	9.780	84.593	79	451.556	0.000	100.000
11	0.044	0.000	0.000	34	1.005	0.000	0.743	57	22.797	7.153	91.745	80	517.200	0.000	100.000
12	0.051	0.000	0.000	35	1.151	0.000	0.743	58	26.111	4.413	96.159	81	592.387	0.000	100.000
13	0.058	0.000	0.000	36	1.318	0.000	0.743	59	29.907	2.299	98.458	82	678.504	0.000	100.000
14	0.067	0.000	0.000	37	1.510	0.000	0.743	60	34.255	1.019	99.477	83	777.141	0.000	100.000
15	0.076	0.000	0.000	38	1.729	0.000	0.743	61	39.234	0.390	99.867	84	890.116	0.000	100.000
16	0.087	0.000	0.000	39	1.981	0.000	0.743	62	44.938	0.133	100.000	85	1019.515	0.000	100.000
17	0.100	0.000	0.000	40	2.269	0.104	0.846	63	51.471	0.000	100.000	86	1167.725	0.000	100.000
18	0.115	0.000	0.000	41	2.599	0.206	1.053	64	58.953	0.000	100.000	87	1337.481	0.000	100.000
19	0.131	0.000	0.000	42	2.976	0.409	1.462	65	67.523	0.000	100.000	88	1531.914	0.000	100.000
20	0.150	0.000	0.000	43	3.409	0.761	2.223	66	77.339	0.000	100.000	89	1754.613	0.000	100.000
21	0.172	0.000	0.000	44	3.905	1.280	3.503	67	88.583	0.000	100.000	90	2009.687	0.000	100.000
22	0.197	0.000	0.000	45	4.472	1.929	5.432	68	101.460	0.000	100.000	91	2301.841	0.000	100.000
23	0.226	0.000	0.000	46	5.122	2.637	8.068	69	116.210	0.000	100.000	92	2636.467	0.000	100.000