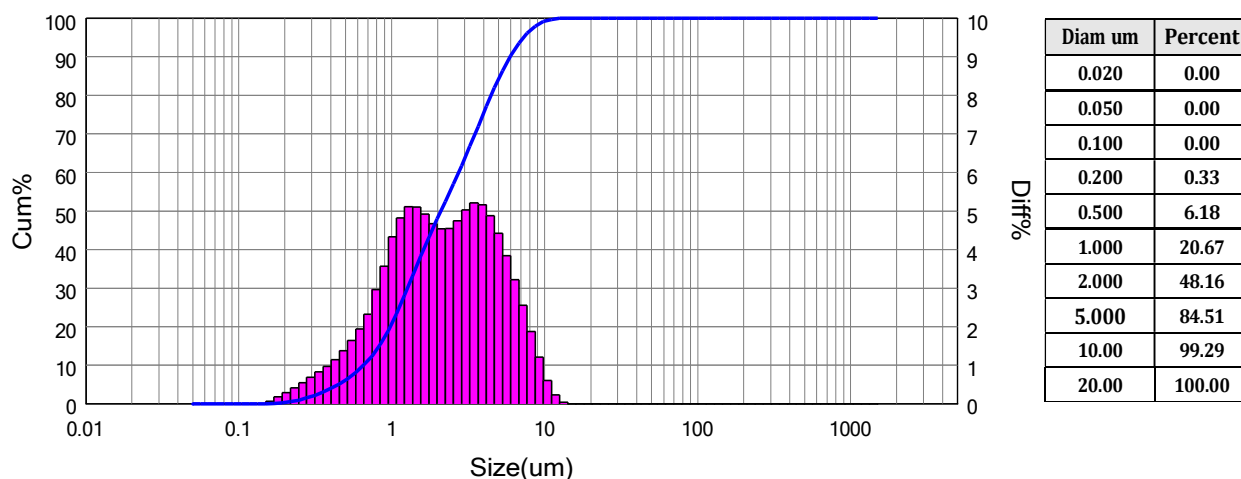


Particle Size Analysis Report

ID: 6681	Sample: 8-Average	Time: 2025-11-18 11:21:38	Sample Owner:		
Physical Characteristic		Chemical Analysis			
Brightness	97%	Caco3	99.9%	Fe2o3	0.001%
Bulk Density	0.82g/cm3	Cao	56.6%	Sio2	0.001%
Moisture	0.02%	Mgo	0.01%	L.O.I	43.89%

D[4,3]: 2.781 um	D[3,2]: 1.379 um	SSA: 1612 m^2/kg	OBS.: 16.92 %
D[2,1]: 0.656 um	D[1,0]: 0.382 um	SPAN: 2.514	Residual: 1.006 %

D03 = 0.355 um	D06 = 0.492 um	D10 = 0.654 um	D16 = 0.860 um	D25 = 1.124 um
D75 = 3.932 um	D50 = 2.100 um	D90 = 5.935 um	D97 = 8.051 um	D98 = 8.708 um



Diam um	Diff%	Cum%	Diam um	Diff%	Cum%	Diam um	Diff%	Cum%	Diam um	Diff%	Cum%
0.050-0.056	0.00	0.00	0.658-0.743	2.32	12.41	8.660-9.791	1.21	99.13	113.9-128.8	0.00	100.00
0.056-0.063	0.00	0.00	0.743-0.841	2.96	15.37	9.791-11.06	0.60	99.73	128.8-145.6	0.00	100.00
0.063-0.072	0.00	0.00	0.841-0.950	3.57	18.94	11.06-12.51	0.23	99.96	145.6-164.7	0.00	100.00
0.072-0.081	0.00	0.00	0.950-1.075	4.33	23.27	12.51-14.14	0.04	100.00	164.7-186.2	0.00	100.00
0.081-0.092	0.00	0.00	1.075-1.215	4.82	28.09	14.14-15.99	0.00	100.00	186.2-210.5	0.00	100.00
0.092-0.104	0.00	0.00	1.215-1.374	5.11	33.20	15.99-18.07	0.00	100.00	210.5-238.0	0.00	100.00
0.104-0.118	0.00	0.00	1.374-1.553	5.10	38.30	18.07-20.44	0.00	100.00	238.0-269.0	0.00	100.00
0.118-0.133	0.00	0.00	1.553-1.756	4.92	43.22	20.44-23.11	0.00	100.00	269.0-304.2	0.00	100.00

Adel Abo Elfadl
Manager

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Certified to ISO 9001:2015 by Infinity Cert International Ltd.

Stearic Acid Thermal Analysis

ID: 5938

Time: 2026-02-16 09:07

Sample Owner:

Physical Characteristic

Appearance	White Granules
Titer	105°C
Moisture	0.001%

Chemical Analysis

Acid Value	210Mg KOH/g
Iodine Value	0.65g I/100g
Unsap	0.1%

Stearic acid is commonly used as a surface treatment to improve the hydrophobicity and dispersion of calcium carbonate. This analysis aims to determine the percentage of stearic acid coating by applying thermal treatment and measuring mass loss.

- Dry treatment was performed at 105 °C for 1 hours.
- Thermal treatment was performed at 350 °C for 1 hours and half
- Equipment: Muffle furnace.
- Measurement: Initial sample weight (m_0) and final weight (m_1) recorded.

Results

Initial Weight (g)	Final Weight (g)	Δm (g)	Stearic Acid %
50	49.320	0.680	1.36

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