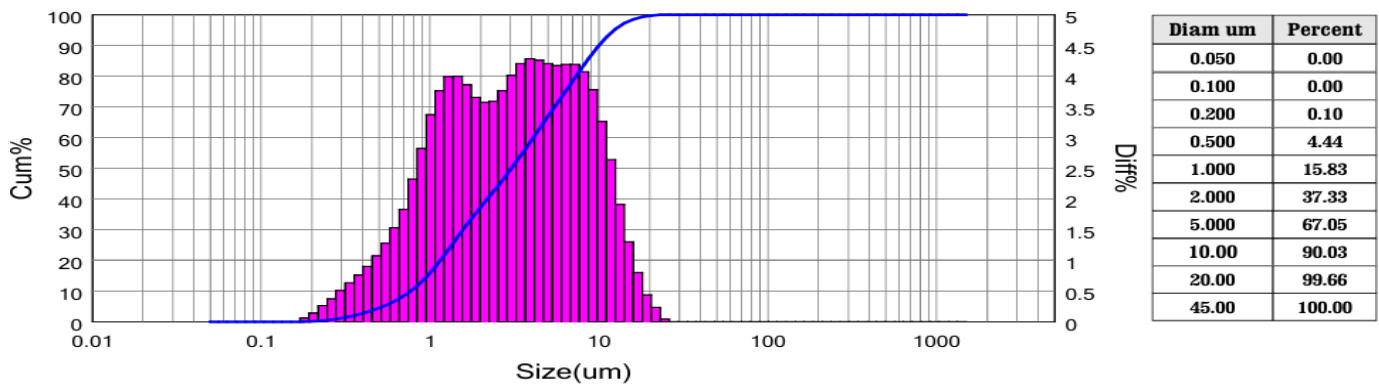


Particle Size Analysis

ID : 6461	Sample : 10-Average	Time : 2025-10-29 12:59:35	Sample Owner :
Physical Characteristic		Chemical Analysis	
Brightness	97%	Caco3	99.9%
Bulk Density	0.82g/cm3	Cao	56.6%
Moisture	0.02%	Mgo	0.01%
		Fe2o3	0.001%
		Sio2	0.001%
		L.O.I	43.89%
D[4,3] : 4.352 um	D[3,2] : 1.738 um	SSA : 1279 m^2/kg	OBS. : 8.45 %
D[2,1] : 0.740 um	D[1,0] : 0.434 um	SPAN : 3.024	Residual : 1.484 %
D03 = 0.417 um	D06 = 0.582 um	D10 = 0.771 um	D16 = 1.006 um
D75 = 6.315 um	D50 = 3.048 um	D90 = 9.989 um	D97 = 13.94 um
			D25 = 1.348 um
			D98 = 15.14 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	1.83	9.34	8.660-9.791	3.78	89.38	113.9-128.8	0.00	100.00
0.056-0.063	0.00	0.00	0.743-0.841	2.32	11.66	9.791-11.06	3.26	92.64	128.8-145.6	0.00	100.00
0.063-0.072	0.00	0.00	0.841-0.950	2.82	14.48	11.06-12.51	2.64	95.28	145.6-164.7	0.00	100.00
0.072-0.081	0.00	0.00	0.950-1.075	3.37	17.85	12.51-14.14	1.91	97.19	164.7-186.2	0.00	100.00
0.081-0.092	0.00	0.00	1.075-1.215	3.76	21.61	14.14-15.99	1.30	98.49	186.2-210.5	0.00	100.00
0.092-0.104	0.00	0.00	1.215-1.374	3.99	25.60	15.99-18.07	0.80	99.29	210.5-238.0	0.00	100.00
0.104-0.118	0.00	0.00	1.374-1.553	4.00	29.60	18.07-20.44	0.44	99.73	238.0-269.0	0.00	100.00
0.118-0.133	0.00	0.00	1.553-1.756	3.86	33.46	20.44-23.11	0.23	99.96	269.0-304.2	0.00	100.00
0.133-0.150	0.00	0.00	1.756-1.985	3.65	37.11	23.11-26.13	0.04	100.00	304.2-343.9	0.00	100.00
0.150-0.170	0.00	0.00	1.985-2.245	3.57	40.68	26.13-29.54	0.00	100.00	343.9-388.8	0.00	100.00
0.170-0.192	0.06	0.06	2.245-2.538	3.59	44.27	29.54-33.40	0.00	100.00	388.8-439.6	0.00	100.00
0.192-0.218	0.14	0.20	2.538-2.869	3.76	48.03	33.40-37.76	0.00	100.00	439.6-497.0	0.00	100.00
0.218-0.246	0.26	0.46	2.869-3.244	4.01	52.04	37.76-42.69	0.00	100.00	497.0-561.9	0.00	100.00
0.246-0.278	0.37	0.83	3.244-3.668	4.20	56.24	42.69-48.27	0.00	100.00	561.9-635.3	0.00	100.00
0.278-0.315	0.51	1.34	3.668-4.147	4.28	60.52	48.27-54.57	0.00	100.00	635.3-718.2	0.00	100.00
0.315-0.356	0.63	1.97	4.147-4.688	4.26	64.78	54.57-61.70	0.00	100.00	718.2-812.0	0.00	100.00
0.356-0.402	0.76	2.73	4.688-5.300	4.20	68.98	61.70-69.76	0.00	100.00	812.0-918.1	0.00	100.00
0.402-0.455	0.90	3.63	5.300-5.992	4.17	73.15	69.76-78.87	0.00	100.00	918.1-1037	0.00	100.00
0.455-0.514	1.07	4.70	5.992-6.775	4.19	77.34	78.87-89.16	0.00	100.00	1037-1173	0.00	100.00
0.514-0.582	1.28	5.98	6.775-7.660	4.19	81.53	89.16-100.8	0.00	100.00	1173-1326	0.00	100.00
0.582-0.658	1.53	7.51	7.660-8.660	4.07	85.60	100.8-113.9	0.00	100.00	1326-1500	0.00	100.00

Adel Abo Elfadl

Manager

☎ 01005008089/01022000192/01005690440

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ARAB CO. FOR TRADE & PACKING LIMESTONE

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

Stearic Acid Thermal Analysis

ID: 6149

Time: 2026-10-29 09:50

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	49.560	0.440	0.88

عادل أبو الفضل
الشركة العربية للتجارة
وتعبئة الحجر الجيري
م.ب. ٥٥٩ / ٦٨٤ / ٧٥٤
١٧١٠٥٩ - ١٧١٠٥٩

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Manager

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