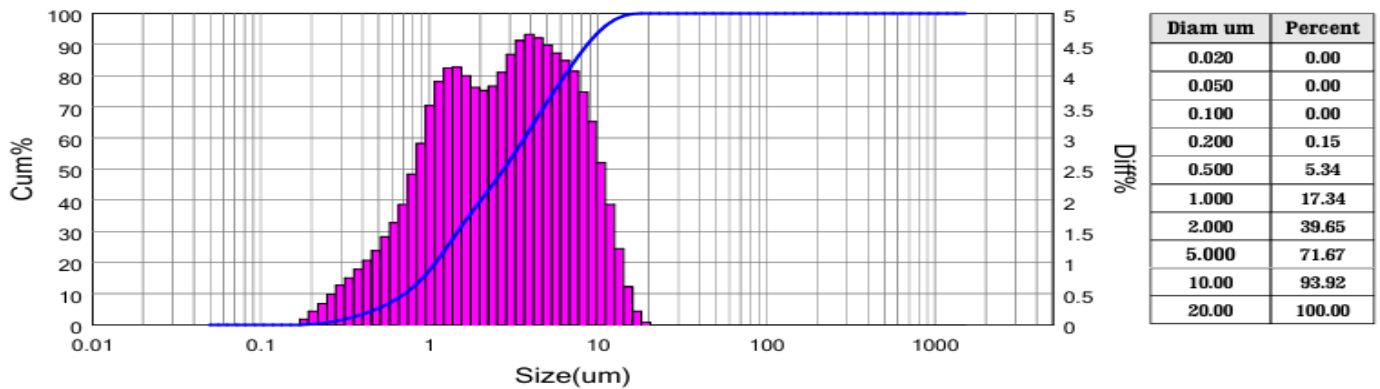


Particle Size Analysis

ID : 6461	Sample : 10-Average	Time : 2025-10-11 18:14:34	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] : 3.803 um	D[3,2] : 1.604 um	SSA : 1386 m^2/kg	OBS. : 16.83 %
D[2,1] : 0.691 um	D[1,0] : 0.407 um	SPAN : 2.845	Residual : 0.973 %
D03 = 0.380 um	D06 = 0.531 um	D10 = 0.716 um	D16 = 0.951 um
D75 = 5.488 um	D50 = 2.779 um	D90 = 8.623 um	D97 = 11.69 um
			D25 = 1.276 um
			D98 = 12.58 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	1.93	10.61	8.660-9.791	3.26	93.38	113.9-128.8	0.00	100.00
0.056-0.063	0.00	0.00	0.743-0.841	2.42	13.03	9.791-11.06	2.60	95.98	128.8-145.6	0.00	100.00
0.063-0.072	0.00	0.00	0.841-0.950	2.91	15.94	11.06-12.51	1.93	97.91	145.6-164.7	0.00	100.00
0.072-0.081	0.00	0.00	0.950-1.075	3.52	19.46	12.51-14.14	1.22	99.13	164.7-186.2	0.00	100.00
0.081-0.092	0.00	0.00	1.075-1.215	3.90	23.36	14.14-15.99	0.61	99.74	186.2-210.5	0.00	100.00
0.092-0.104	0.00	0.00	1.215-1.374	4.12	27.48	15.99-18.07	0.22	99.96	210.5-238.0	0.00	100.00
0.104-0.118	0.00	0.00	1.374-1.553	4.13	31.61	18.07-20.44	0.04	100.00	238.0-269.0	0.00	100.00
0.118-0.133	0.00	0.00	1.553-1.756	4.00	35.61	20.44-23.11	0.00	100.00	269.0-304.2	0.00	100.00
0.133-0.150	0.00	0.00	1.756-1.985	3.81	39.42	23.11-26.13	0.00	100.00	304.2-343.9	0.00	100.00
0.150-0.170	0.00	0.00	1.985-2.245	3.76	43.18	26.13-29.54	0.00	100.00	343.9-388.8	0.00	100.00
0.170-0.192	0.09	0.09	2.245-2.538	3.83	47.01	29.54-33.40	0.00	100.00	388.8-439.6	0.00	100.00
0.192-0.218	0.22	0.31	2.538-2.869	4.05	51.06	33.40-37.76	0.00	100.00	439.6-497.0	0.00	100.00
0.218-0.246	0.34	0.65	2.869-3.244	4.34	55.40	37.76-42.69	0.00	100.00	497.0-561.9	0.00	100.00
0.246-0.278	0.49	1.14	3.244-3.668	4.56	59.96	42.69-48.27	0.00	100.00	561.9-635.3	0.00	100.00
0.278-0.315	0.63	1.77	3.668-4.147	4.66	64.62	48.27-54.57	0.00	100.00	635.3-718.2	0.00	100.00
0.315-0.356	0.75	2.52	4.147-4.688	4.60	69.22	54.57-61.70	0.00	100.00	718.2-812.0	0.00	100.00
0.356-0.402	0.89	3.41	4.688-5.300	4.49	73.71	61.70-69.76	0.00	100.00	812.0-918.1	0.00	100.00
0.402-0.455	1.03	4.44	5.300-5.992	4.36	78.07	69.76-78.87	0.00	100.00	918.1-1037	0.00	100.00
0.455-0.514	1.19	5.63	5.992-6.775	4.24	82.31	78.87-89.16	0.00	100.00	1037-1173	0.00	100.00
0.514-0.582	1.41	7.04	6.775-7.660	4.07	86.38	89.16-100.8	0.00	100.00	1173-1326	0.00	100.00
0.582-0.658	1.64	8.68	7.660-8.660	3.74	90.12	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: 6361

Time: 2026-10-11 02:30

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	49.470	0.530	1.06

عادل أبو الفضل
الشركة العربية للتجارة
وتعبئة الحجر الجيري
م.ب. ٧٣ / ٩١٣ / ٥٥٩ / ٧٥٤
١٧١٠٥٩ - ١٧١٠٥٩

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Manager

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