



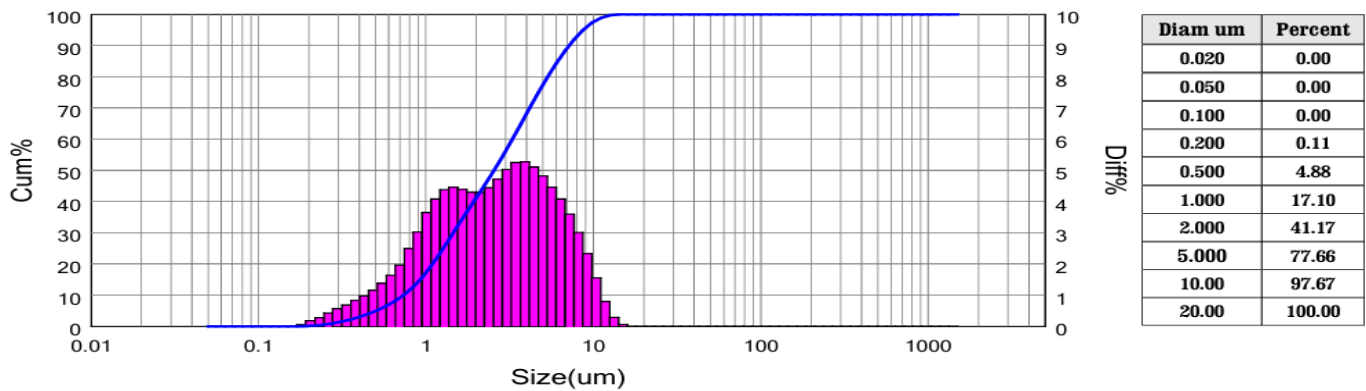
ARAB CO. FOR TRADE & PACKING LIMESTONE

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

عادل أبو الفضل وشركاه

Particle Size Analysis

ID : 6461	Sample : 10-Average	Time : 2025-10-20 14:43:45	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] : 3.305 um	D[3,2] : 1.585 um	SSA : 1402 m^2/kg	OBS. : 6.71 %
D[2,1] : 0.735 um	D[1,0] : 0.431 um	SPAN : 2.491	Residual : 1.371 %
D03 = 0.400 um	D06 = 0.555 um	D10 = 0.737 um	D16 = 0.961 um
D75 = 4.687 um	D50 = 2.561 um	D90 = 7.121 um	D97 = 9.613 um
			D25 = 1.272 um
			D98 = 10.18 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	1.96	10.13	8.660-9.791	2.33	97.30	113.9-128.8	0.00	100.00
0.056-0.063	0.00	0.00	0.743-0.841	2.50	12.63	9.791-11.06	1.55	98.85	128.8-145.6	0.00	100.00
0.063-0.072	0.00	0.00	0.841-0.950	3.02	15.65	11.06-12.51	0.80	99.65	145.6-164.7	0.00	100.00
0.072-0.081	0.00	0.00	0.950-1.075	3.65	19.30	12.51-14.14	0.29	99.94	164.7-186.2	0.00	100.00
0.081-0.092	0.00	0.00	1.075-1.215	4.08	23.38	14.14-15.99	0.06	100.00	186.2-210.5	0.00	100.00
0.092-0.104	0.00	0.00	1.215-1.374	4.38	27.76	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	4.46	32.22	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	4.39	36.61	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	4.30	40.91	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	4.30	45.21	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	4.44	49.65	29.54-33.40	0.00	100.00	388.8-439.6	0.00	100.00
0.192-0.218	0.18	0.24	2.538-2.869	4.71	54.36	33.40-37.76	0.00	100.00	439.6-497.0	0.00	100.00
0.218-0.246	0.28	0.52	2.869-3.244	5.02	59.38	37.76-42.69	0.00	100.00	497.0-561.9	0.00	100.00
0.246-0.278	0.43	0.95	3.244-3.668	5.25	64.63	42.69-48.27	0.00	100.00	561.9-635.3	0.00	100.00
0.278-0.315	0.57	1.52	3.668-4.147	5.27	69.90	48.27-54.57	0.00	100.00	635.3-718.2	0.00	100.00
0.315-0.356	0.68	2.20	4.147-4.688	5.10	75.00	54.57-61.70	0.00	100.00	718.2-812.0	0.00	100.00
0.356-0.402	0.83	3.03	4.688-5.300	4.82	79.82	61.70-69.76	0.00	100.00	812.0-918.1	0.00	100.00
0.402-0.455	0.97	4.00	5.300-5.992	4.46	84.28	69.76-78.87	0.00	100.00	918.1-1037	0.00	100.00
0.455-0.514	1.16	5.16	5.992-6.775	4.08	88.36	78.87-89.16	0.00	100.00	1037-1173	0.00	100.00
0.514-0.582	1.38	6.54	6.775-7.660	3.60	91.96	89.16-100.8	0.00	100.00	1173-1326	0.00	100.00
0.582-0.658	1.63	8.17	7.660-8.660	3.01	94.97	100.8-113.9	0.00	100.00	1326-1500	0.00	100.00

Adel Abo Elfadl

Manager

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Stearic Acid Thermal Analysis

ID: 5981

Time: 2026-10-24 05:20

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	49.430	0.570	1.14

عادل أبو الفضل
الشركة العربية للتجارة
وتعبئة الحجر الجيري
م.ب. ٧٣ / ٢١٣ / ٢٥ / ٩٠٠
٥٥٩ / ٦٨٤ / ٧٥٢
ج.ب. ١٧١٠٥٩ - ١٧١٠٥٩

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