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Particle Size Analysis By Sympatec

Sample Requirement :-

1. Solid Sample - 5 gms.

Applications :-

1. Laser Based Diffraction Technique for measurement of Particle Size in the range of 0.1 μm to 875 μm (100 nm to 875 Microns) by using Dry Powder .



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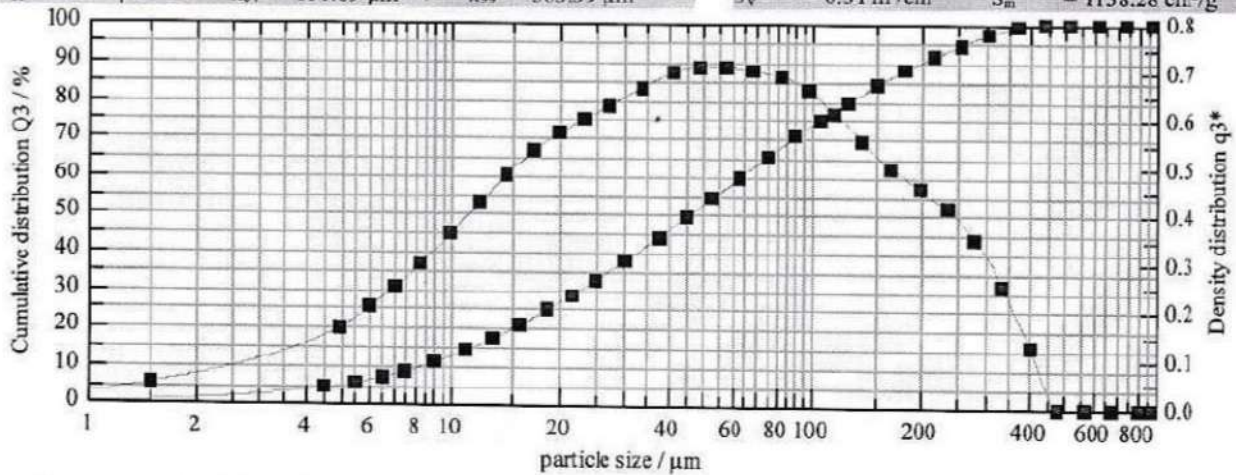
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HELOS (H1004) & RODOS, R5: 0.5/4.5...875µm

2020-11-11, 13:36:47,750

$x_{10} = 8.45 \mu\text{m}$ $x_{50} = 46.02 \mu\text{m}$ $x_{90} = 201.74 \mu\text{m}$ **SMD = 19.45 µm** **VMD = 77.81 µm**
 $x_{16} = 12.33 \mu\text{m}$ $x_{84} = 150.89 \mu\text{m}$ $x_{99} = 363.39 \mu\text{m}$ $S_v = 0.31 \text{ m}^2/\text{cm}^3$ $S_m = 1138.28 \text{ cm}^2/\text{g}$



comment:

user parameters:

Company Name:

Batch Name: MSA-2010124

cumulative distribution

$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$
4.50	4.18	18.50	24.78	75.00	65.02	305.00	97.11
5.50	5.57	21.50	28.50	90.00	70.47	365.00	99.05
6.50	7.02	25.00	32.42	105.00	74.88	435.00	100.00
7.50	8.53	30.00	37.40	125.00	79.51	515.00	100.00
9.00	10.85	37.50	43.84	150.00	83.88	615.00	100.00
11.00	13.96	45.00	49.35	180.00	87.82	735.00	100.00
13.00	17.02	52.50	54.10	215.00	91.33	875.00	100.00
15.50	20.69	62.50	59.47	255.00	94.38		

density distribution (log.)

$x_m/\mu\text{m}$	q_3/g	$x_m/\mu\text{m}$	q_3/g	$x_m/\mu\text{m}$	q_3/g	$x_m/\mu\text{m}$	q_3/g
1.50	0.04	16.93	0.53	68.47	0.70	278.88	0.35
4.97	0.16	19.94	0.57	82.16	0.69	333.65	0.25
5.98	0.20	23.18	0.60	97.21	0.66	398.47	0.12
6.98	0.24	27.39	0.63	114.56	0.61	473.31	0.00
8.22	0.29	33.54	0.66	136.93	0.55	562.78	0.00
9.95	0.36	41.08	0.70	164.32	0.50	672.33	0.00
11.96	0.42	48.61	0.71	196.72	0.45	801.95	0.00
14.20	0.48	57.28	0.71	234.15	0.41		

evaluation: WINDOX 5.5.1.0, HRLD

revalidation:

reference measurement: 11-11 13:35:15

contamination: 0.00 %

trigger condition:

start: c.opt >= 1%

valid: always

stop: 5s c.opt <= 0.5% or 10s real time

time base: 100.0 ms

product: MSA-2010124

density: 2.7100 g/cm³

shape factor: 1.000

C_{opt}: 9.47 %

dispersing method:

pressure: 1.50 bar

depression: 9.00 mbar

revolution: 60 %

feeder: VIBRI

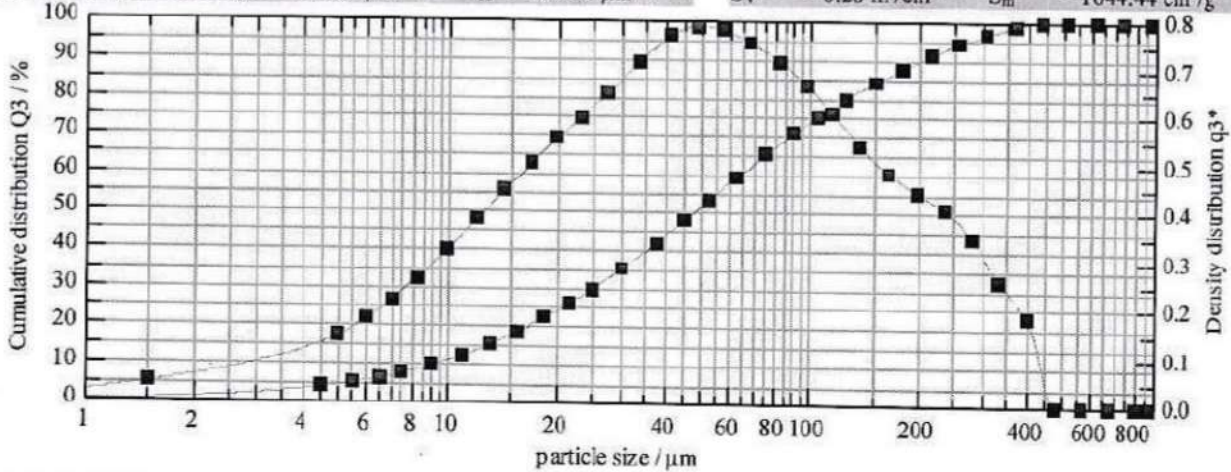
feed rate: 50 %

gap height: 1.0 mm

HELOS (H1004) & RODOS, R5: 0.5/4.5...875µm

2020-11-11, 13:08:38

$x_{10} = 9.47 \mu\text{m}$ $x_{50} = 48.29 \mu\text{m}$ $x_{90} = 205.36 \mu\text{m}$ **SMD = 21.20 µm** **VMD = 80.02 µm**
 $x_{16} = 13.84 \mu\text{m}$ $x_{84} = 151.98 \mu\text{m}$ $x_{99} = 384.54 \mu\text{m}$ $S_v = 0.28 \text{ m}^2/\text{cm}^3$ $S_m = 1044.44 \text{ cm}^2/\text{g}$



comment:

user parameters:

Company Name:

Batch Name: MSA-2010118

cumulative distribution

$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$
4.50	3.58	18.50	22.08	75.00	64.81	305.00	96.62
5.50	4.76	21.50	25.68	90.00	70.46	365.00	98.61
6.50	6.01	25.00	29.58	105.00	74.92	435.00	100.00
7.50	7.32	30.00	34.70	125.00	79.50	515.00	100.00
9.00	9.35	37.50	41.61	150.00	83.75	615.00	100.00
11.00	12.11	45.00	47.69	180.00	87.54	735.00	100.00
13.00	14.87	52.50	52.96	215.00	90.93	875.00	100.00
15.50	18.24	62.50	58.87	255.00	93.93		

density distribution (log.)

$x_m/\mu\text{m}$	q_3/g	$x_m/\mu\text{m}$	q_3/g	$x_m/\mu\text{m}$	q_3/g	$x_m/\mu\text{m}$	q_3/g
1.50	0.04	16.93	0.50	68.47	0.75	278.88	0.34
4.97	0.14	19.94	0.55	82.16	0.71	333.65	0.26
5.98	0.17	23.18	0.60	97.21	0.67	398.47	0.18
6.98	0.21	27.39	0.65	114.56	0.60	473.31	0.00
8.22	0.26	33.54	0.71	136.93	0.54	562.78	0.00
9.95	0.32	41.08	0.77	164.32	0.48	672.33	0.00
11.96	0.38	48.61	0.79	196.72	0.44	801.95	0.00
14.20	0.44	57.28	0.78	234.15	0.40		

evaluation: WINDOX 5.5.1.0, HRLD

revalidation:

reference measurement: 11-11 13:05:57

contamination: 0.00 %

trigger condition:

start: c.opt >= 1%

valid: always

stop: 5s c.opt <= 0.5% or 10s real time

time base: 100.0 ms

product: MSA-2010118

density: 2.7100 g/cm³

shape factor: 1.000

C_{opt}: 6.49 %

dispersing method:

pressure: 1.50 bar depression: 9.00 mbar

revolution: 60 %

feeder: VIBRI

feed rate: 50 %

gap height: 1.0 mm