



Sympatec GmbH
System-Partikel-Technik

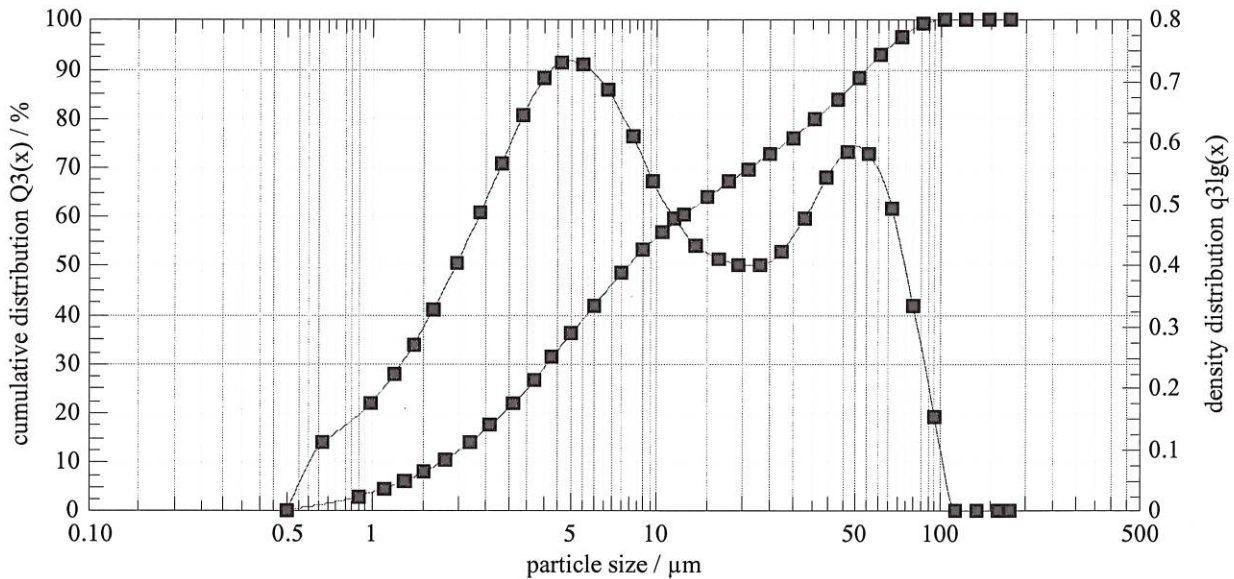
HELOS Particle Size Analysis

WINDOX 4

HELOS (H1443) & RODOS, R3: 0.5/0.9...175µm Ventilato

27/06/2018, 10.54.55,8750

$x_{10} = 1,78 \mu\text{m}$ $x_{50} = 8,09 \mu\text{m}$ $x_{90} = 55,35 \mu\text{m}$ **SMD = 4,44 µm** **VMD = 19,11 µm**
 $x_{16} = 2,47 \mu\text{m}$ $x_{84} = 43,52 \mu\text{m}$ $x_{99} = 88,65 \mu\text{m}$ $S_v = 1,35 \text{ m}^2/\text{cm}^3$ $S_m = 4986,18 \text{ cm}^2/\text{g}$



PASSANTE TRA 0 100

99,79%

cumulative distribution

$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$	$x_0/\mu\text{m}$	$Q_3/\%$
0,90	2,76	3,70	26,40	15,00	63,51	61,00	92,54
1,10	4,27	4,30	30,98	18,00	66,75	73,00	96,37
1,30	5,88	5,00	35,75	21,00	69,43	87,00	98,88
1,50	7,56	6,00	41,49	25,00	72,45	103,00	100,00
1,80	10,14	7,50	48,12	30,00	75,79	123,00	100,00
2,20	13,65	9,00	52,92	36,00	79,55	147,00	100,00
2,60	17,15	10,50	56,49	43,00	83,72	175,00	100,00
3,10	21,45	12,50	60,10	51,00	88,04		

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
0,67	0,11	3,39	0,64	13,69	0,43	55,78	0,58
0,99	0,17	3,99	0,70	16,43	0,41	66,73	0,49
1,20	0,22	4,64	0,73	19,44	0,40	79,69	0,33
1,40	0,27	5,48	0,72	22,91	0,40	94,66	0,15
1,64	0,33	6,71	0,68	27,39	0,42	112,56	0,00
1,99	0,40	8,22	0,61	32,86	0,47	134,47	0,00
2,39	0,48	9,72	0,53	39,34	0,54	160,39	0,00
2,84	0,56	11,46	0,48	46,83	0,58		

evaluation: WINDOX 4.2.2.0, HRLD

revalidation:
 reference measurement: 27/06 10.54.25
 contamination: 0,00 %

product: Ventilato

density: 2,71 g/cm³, shape factor: 1,00
 disp. meth.: VENTILATO
 $C_{\text{opt}} = 17,47 \%$



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HELOS Particle Size Analysis

WINDOX 4

HELOS (H1443) & RODOS, R5: 0.5/4.5...875µm Polvere

12/06/2018, 12.01.29,5620

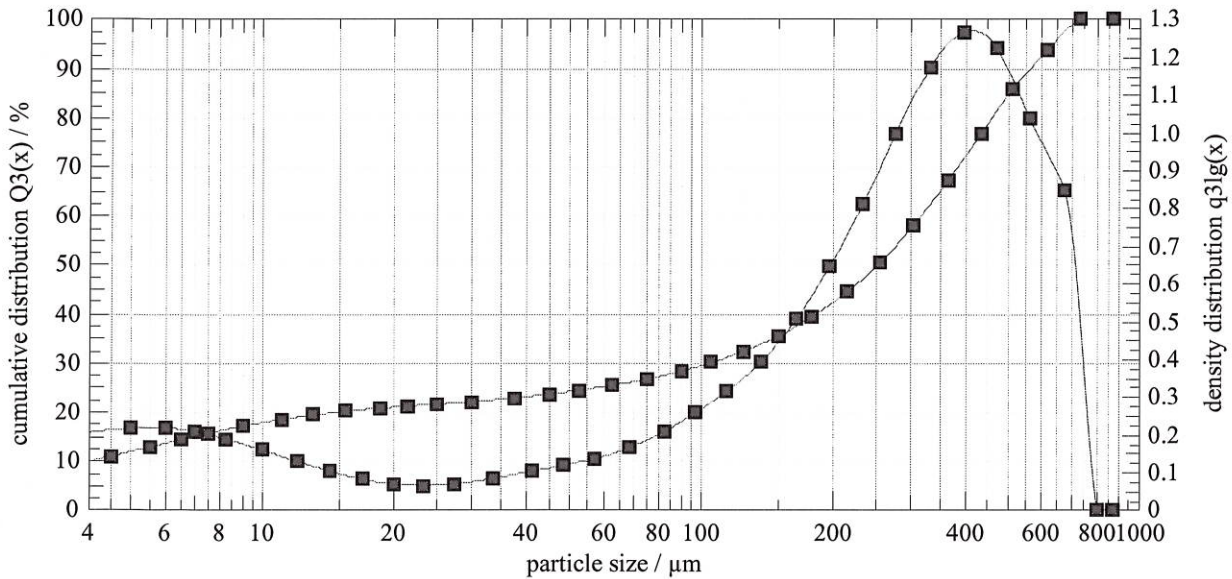
$x_{10} = 4,24 \mu\text{m}$
 $x_{16} = 8,13 \mu\text{m}$

$x_{50} = 254,41 \mu\text{m}$
 $x_{84} = 501,44 \mu\text{m}$

$x_{90} = 571,38 \mu\text{m}$
 $x_{99} = 716,62 \mu\text{m}$

SMD = 16,67 µm
 $S_v = 0,36 \text{ m}^2/\text{cm}^3$

VMD = 266,35 µm
 $S_m = 1327,92 \text{ cm}^2/\text{g}$



PASSANTE TRA 0 100

29,21%

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	10,70	18,50	20,47	75,00	26,46	305,00	57,83
5,50	12,56	21,50	20,90	90,00	28,08	365,00	66,96
6,50	14,11	25,00	21,30	105,00	29,78	435,00	76,57
7,50	15,38	30,00	21,82	125,00	32,13	515,00	85,52
9,00	16,84	37,50	22,61	150,00	35,21	615,00	93,47
11,00	18,19	45,00	23,40	180,00	39,18	735,00	100,00
13,00	19,10	52,50	24,17	215,00	44,12	875,00	100,00
15,50	19,87	62,50	25,18	255,00	50,09		

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	0,09	16,93	0,08	68,47	0,16	278,88	0,99
4,97	0,21	19,94	0,07	82,16	0,20	333,65	1,17
5,98	0,21	23,18	0,06	97,21	0,25	398,47	1,26
6,98	0,20	27,39	0,07	114,56	0,31	473,31	1,22
8,22	0,18	33,54	0,08	136,93	0,39	562,78	1,03
9,95	0,15	41,08	0,10	164,32	0,50	672,33	0,84
11,96	0,13	48,61	0,12	196,72	0,64	801,95	0,00
14,20	0,10	57,28	0,13	234,15	0,80		

evaluation: WINDOX 4.2.2.0, HRLD

revalidation:
reference measurement: 12/06 12.01.04
contamination: 0,00 %

product: Polvere

density: 2,71 g/cm³, shape factor: 1,00
disp. meth.: Polvere.
 $C_{opt} = 22,70 \%$