



Sympatec GmbH
System-Partikel-Technik

HELOS Particle Size Analysis

WINDOX 4

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

12/06/2018, 12.01.29,5620

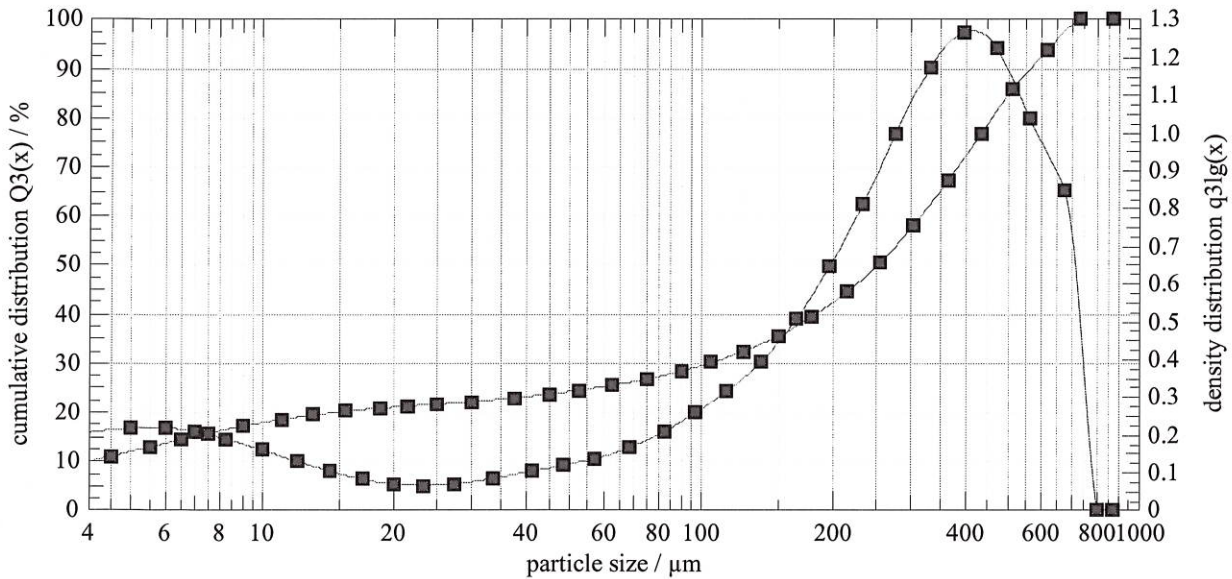
$x_{10} = 4,24 \mu\text{m}$
 $x_{16} = 8,13 \mu\text{m}$

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

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

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

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



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.
 $C_{opt} = 22,70 \%$