Wollastonite – characterization of needle-shaped crystals with static image analysis

Instrument: CAMSIZER M1

The Mineral Wollatonite

Wollastonite (CaSiO₃) is a colorless chain silicate which occurs in metamorphic rocks and forms when an impure limestone is subjected to temperatures > 600 °C. Due to its high melting point at 1540 °C, wollastonite is a suitable raw material for the production of refractory materials, ceramics, insulators, fire-resistant clothing; but it is also used as filler medium in paints, plastics, or friction pads.

Two wollastonite samples have been analyzed with the CAMSIZER M1 static image analyzer to determine the size and shape distribution. The mineral usually forms acicular crystals. The analysis of both width and length is therefore required to thoroughly characterize the material.





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Fig. 1: Milled wollastonite sample for analysis (left) and rock specimen with white crystals of wollastonite (right, source: Wikipedia).

Static Image Analysis with the CAMSIZER M1

The CAMSIZER M1 uses the principle of static image analysis (ISO 13322-1) to determine the particle size and particle shape in a measuring range from 0.5 μ m to 1500 μ m. An object slide with sample material is shifted stepwise along a camera system which acquires one image per step. The samples may be dry or wet (powders or suspensions). In contrast to dynamic image analysis, the sample remains stationary during the image acquisition. Hence, the particle images show excellent quality and richness of detail. The CAMSIZER M1 particle size / particle shape analyzer features a powerful illumination unit, a highly precise sample stage and five objectives with magnifications from 2.5x to 50x. Thanks to the wide traversing range of the sample stage, an area corresponding to up to eight standard object slides can be evaluated. The CAMSIZER M1 uses an 18.1 Megapixel color camera for image acquisition which guarantees rapid and accurate particle analysis over the entire measuring range.



Fig. 2: CAMSIZER M1 is a powerful static image analyser. For sample preparation of dry powders, the M-Jet module is available

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Sample Preparation

Two powder-like wollastonite samples were analyzed with the CAMSIZER M1. Prior to the measurement, the samples were dispersed on a 76 x 52 mm microscope slide using the M-Jet dry dispersion module. A glass slide is placed under the dispersion chamber of the M-Jet which is subsequently evacuated. As the chamber is flushed with ambient air, the powder from the sample holder is carried into the chamber and is homogeneously distributed onto the glass slide.

The samples were measured with the CAMSIZER M1 with the size definitions $x_{c min}$ (particle width), and $x_{Fe max}$ (particle length), the particle shape is detected simultaneously. The instrument was set up for transmitted light and 5 x magnification. Sample 2 was additionally measured with 10 x magnification. An area of 25 x 35 frames was scanned with 5 x magnification and 40 x 50 frames with 10 x magnification. Up to 70 000 particles were analyzed in this way. Analysis time was approx. 5 minutes at 5 x magnification and 12 minutes at 10 x magnification.



Fig. 3: Example images of the wollastonite samples taken by the CAMSIZER M1 powders. Left: sample 1, 5 x magnification, right: sample 2, 5 x magnification. The acicular geometry of the particles is evident.



Fig. 4: Wollastonite sample 1, overview image of the measurement area, 10 x magnification, transmitted light

Fig. 3 shows digital images taken of sample 1 and 2 by the CAMSIZER M1. Every image is evaluated in real time and saved for subsequent analysis. An overview image is created which gives the user the opportunity to evaluate dispersion quality and check for contamination (Fig. 4).

Results

In the following diagrams the size distribution is expressed by:

• Cumulative distribution Q₃



Fig. 5: Size graphs of Wollastonite Sample 2. Size definition particle width (x c min, red) and particle length (x re max, blue). CAMSIZER M1, transmitted light, 5 x magnification.



Fig. 6: Size graphs of Wollastonite Sample 1. Size definition particle width x c min 5 x magnification (red) and 10 x magnification (blue) particle length (x Fe max) 5 x magnification (orange) and 10 x magnification (light blue) CAMSIZER M1, transmitted light. The results are almost identical, but the measurement with 5x magnification is significantly faster.



Fig. 7: Size graphs of Sample 1, x c min (red) Sample 2 x Fe max (orange), Sample 2 x c min (blue) and Sample 2 x Fe max (light blue) 5 x magnification.

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Fig. 8: Shape graphs of Wollastonite sample 1 (red) and wollastonite sample 2 (blue), shape parameter aspect ratio (b/l), 5 x magnification, transmitted light. Sample 1 has a lower aspect ratio than sample 2.

Particle Evaluation

All images that are acquired during the measurement are saved and can be used for later evaluation. The Particle X-Plorer software offers many possibilities to evaluate images or individual particles. Filter options are available to browse for particles with selected characteristics. In the following, the 30 longest particles from each sample are listed. Note that all relevant size and shape data are displayed right next to the particle images.



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Fig. 9: The 30 longest particles of sample 1





MICROTRAC

3	Cam .0 Tmg . 230	Part .1	2	Cam .0 Tmg . 692	Part .1	10		Cam:0 Tma:51	Part .Q
	cam.o ing.250	101211			101111			cameo ingesi	141213
	Conv	0.9220		Conv	0.8816			Conv	0.9727
	Yellin	0 0711 mm		Yellin	0 01 21 mm			Vellin	0 0264 mm
	ALBITH	0,0211 mm		ACPITI	0,0151 mm			ALPITH	0,0304 mm
	XFeMax	0,2615 mm		XFeMax	0,2755 mm	1		XFeMax	0,2799 mm
	TmageNo	230 0000		TraceNo	692 0000			TmageNo	51 0000
	Linageivo	250,0000		Linagento	052,0000			Linageno	51,0000
	XMaMin	0,0176 mm		XMaMin	0,0090mm			XMaMin	0,0333 mm
	XInner	0.0202 mm		XInner	0.0122 mm	0		XInner	0.0353 mm
	XArea	0,0/49 mm		XArea	0,0566 mm			XArea	0,1018mm
	Aspect Ratio	0.0806		Aspect Ratio	0.0474			Aspect Ratio	0.1301
	Bauadanaa	0 5331		Bauadanaa	0 4061		A	Davinden an	0.0005
	Roundness	0,5521		Roundness	0,4961		5	Roundness	0,0895
	Symmetry	0,8162		Symmetry	0,6835			Symmetry	0,8892
	Transnaremy	0 2591		Transnarensv	0 2265			Transnaremy	0.0710
	mansparency	0,2351		mansparency	0,2205			mansparency	0,0110
	Compactness	0,2864		Compactness	0,2055			Compactness	0,3637
	Circularity	0 4278		Circularity	0.3176			Circularity	0 5517
19. 			2			<u>8</u>			-1
2	Come O Tomos FEE	Gant of		Came 0 Tmas 330	0.00000.12			Come O Toron AC	0 Death of
B	<u>Cam:0 1mg:556</u>	Part:1		<u>Cam:0 1mg:239</u>	Part:12			Cam:0 1mg:46	<u>9 Part:1</u>
14	Came	0.0745		Came	0.0505			Came	0.0422
11:	Conv	0,5745		Conv	0,5555			CONV	0,9452
115	XcMin	0,0211 mm		XcMin	0,0358mm			XcMin	0,0133 mm
11	XEeMax	0 2858 mm		XFeMax	0 3224 mm			XFeMax	0 3026 mm
Vh		0,2000			0,000,000			and approximate	0,0020.000
1/2	ImageNo	556,0000		ImageNo	239,0000			ImageNo	469,0000
V.	XMaMin	0.0198mm		XMaMin	0,0289 mm	1		XMaMin	0.0115 mm
1	VTuren	0.0202.00		VTermen	0.0348 mm	1 Marcan	1	VTmmn	0.0125 ===
	Attimer	0,0202 mm		Ainner	0,0348 mm			ATUNEL	0,0125 mm
1	XArea	0.0782 mm		XArea	0.1082 mm		/	XArea	0.0629 mm
	Aspect Patio	0 0728		Aspect Patio	0 1110		/	Aspect Patio	0 0428
	Aspect Katio	0,0758	and the second second	Aspect Katio	0,1110			Aspect Katio	0,0458
	Roundness	0,2804		Roundness	0,2127			Roundness	0,5014
	Symmetry	0 9493		Symmetry	0 8539			Symmetry	0 8663
1	Transparency	0,2668		Transparency	0,0688			Transparency	0,1914
	Compactness	0.2735		Compactness	0.3355			Compactness	0.2078
	Cine, Janiba	0 41 80		Cine, Janiha	0 4000			Cine, Janiho	0 31 76
				I CIPCULARITY	U 9000			L IFCULARITY	11 51 / 15
2	Circularity	0,4180	12 C			10			0,5270
	circularity	0,4100	÷.	,					0,5270
	circularity	0,4100							0,5270
	Cam:0 Img:39 P	0,4180		<u>Cam:0 Img:146</u>	Part:12		/	Cam:0 Img:67	<u>1 Part:5</u>
	Cam:O Img:39 P	art:1	/	<u>Cam:0 Img:146</u>	Part:12		1	Cam:0 Img:67	<u>1 Part:5</u>
	Cam:0 Img:39 P	0,4180 art:1 0,9736		Cam:0 Img:146	0,9365		/	<u>Cam:0 Img:67</u> Conv	0,9472
	<u>Cam:0 Img:39 P</u> Conv XcMin	0,9736 0,0222 mm		<u>Cam:0 Img:146</u> Conv XcMin	0,9365 0,0106 mm		/	<u>Cam:0 Img:67</u> Conv XcMin	0,9472 0,0087 mm
	Cam:O Img:39 P. Conv XcMin	0,9736 0,0222mm 0,0256mm		Cam:0 Img:146 Conv XcMin	0,9365 0,0106 mm		/	<u>Cam:0 Img:67</u> Conv XcMin	0,9472 0,9472 0,0087 mm
	<u>Cam:O Img:39 P</u> Conv XcMin XFeMax	0,9736 0,0222 mm 0,2956 mm		<u>Cam:0 Img:146</u> Conv XcMin XFeMax	5 Part:12 0,9365 0,0106 mm 0,2938 mm		/	<u>Cam:0 Img:67</u> Conv XcMin XFeMax	0,9472 0,9472 0,0087mm 0,3352mm
	<u>Cam:0 Img:39 P</u> Conv XcMin XFeMax ImageNo	0,9736 0,0222 mm 0,2956 mm 39,0000		Cam:0 Img:146 Conv XcMin XFeMax ImageNo	5 <u>Part:12</u> 0,9365 0,0106 mm 0,2938 mm 146,0000		/	<u>Cam:0 Img:67</u> Conv XcMin XFeMax ImageNo	1 <u>Part:5</u> 0,9472 0,0087mm 0,3352mm 671,0000
	Cam:O Img:39 P Conv XcMin XFeMax ImageNo XWaNin	0,9736 0,0222 mm 0,2956 mm 39,0000 0,0218 mm		Cam:0 Img:146 Conv XcMin XFeMax ImageNo XMaMin	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm		/	<u>Cam:0 Img:67</u> Conv XcMin XFeMax ImageNo XMaMin	0,9472 0,9472 0,0087mm 0,3352mm 671,0000 0.0081mm
	Cam:O Img:39 P Conv XcMin XFeMax ImageNo XMaMin	0,9736 0,9736 0,0222 mm 0,2956 mm 39,0000 0,0218 mm		Cam:O Img:146 Conv XcMin XFeMax ImageNo XMaMin	5 <u>Part:12</u> 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm		/	<u>Cam:O Img:67</u> Conv XcMin XFeMax ImageNo XMaMin	1 <u>Part:5</u> 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0081 mm
	Cam:O Img:39 P. Conv XcMin XFeMax ImageNo XMaMin XInner	0,9736 0,9736 0,0222 mm 0,2956 mm 39,0000 0,0218 mm 0,0213 mm		Cam:0 Img:146 Conv XcMin XFeMax ImageNo XMaMin XInner	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0099 mm		/	<u>Cam:0 Img:67</u> Conv XcMin XFeMax ImageNo XMaMin XInner	<u>1 Part:5</u> 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0081 mm 0,0080 mm
	Cam:O Img:39 P. Conv XcMin XFeMax ImageNo XMaMin XInner XArea	art:1 0,9736 0,0222 mm 0,2956 mm 39,0000 0,0218 mm 0,0807 mm		Cam:O Img:146 Conv XcMin XFeMax ImageNo XMaMin XInner XArea	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,009 mm 0,0551 mm		/	<u>Cam:0 Img:67</u> Conv XcMin XFeMax ImageNo XMaMin XInner XArea	<u>1 Part:5</u> 0,9472 0,0087mm 0,3352mm 671,0000 0,0081mm 0,0080mm 0,0080mm
	Cam:O Img:39 P. Conv XcMin XFeMax ImageNo XMaMin XInner XArea	0,4180 art:1 0,9736 0,0222 mm 0,2956 mm 39,0000 0,0218 mm 0,0213 mm 0,0807 mm 0,0807 mm		Cam:0 Img:146 Conv XcMin XFeMax ImageNo XMaMin XInner XArea	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0099 mm 0,0551 mm 0,0551 mm		/	Cam:O Img:67. Conv XcMin XFeMax ImageNo XMaMin XInner XArea	1 Part:5 0,9472 0,0087mm 0,3352mm 671,0000 0,0081mm 0,0080mm 0,0534mm 0,0534mm
	Cam:O Img:39 P. Conv XcMin XFeMax ImageNo XMaMin XInner XXrea Aspect Ratio	art:1 0,9736 0,0222 mm 0,2256 mm 39,0000 0,0218 mm 0,0807 mm 0,0807 mm 0,0751		Cam:O Img:146 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0059 mm 0,0351 mm 0,0360		/	Cam:O Img:67 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio	<u>1 Part:5</u> 0,9472 0,0087mm 0,3352mm 671,0000 0,0081mm 0,0080mm 0,0534mm 0,0260
	Cam:O Img:39 P Conv XcMin XFMax ImageNo XMaWin XInner XArea Aspect Ratio Roundness	0,4180 <i>art:1</i> 0,9736 0,222 mm 39,0000 0,0218 mm 0,0213 mm 0,0807 mm 0,0751 0,0000		Cam:O Img:146 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0099 mm 0,0351 mm 0,0360 0,1354		/	Cam:0 Img:67 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness	1 Part:5 0,9472 0,0087mm 0,3352mm 671,0000 0,0081mm 0,0080mm 0,0534mm 0,0260 0,0000
	Cam:O Img:39 P Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry	art:1 0,9736 0,0222 mm 0,2256 mm 39,0000 0,0218 mm 0,0807 mm 0,0807 mm 0,0751 0,0000 0,9121		Cam:O Img:146 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0059 mm 0,0551 mm 0,0360 0,1354 0,8044		/	Cam:O Img:67 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry	0,210 1 Part:5 0,0087mm 0,3352mm 671,0000 0,0083mm 0,0080mm 0,0534mm 0,0260 0,0000 0,8181
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	Cam:0 Img:39 P Conv XcMin XfeMax ImageNo XJaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency	art:1 0,9736 0,0222 mm 0,2356 mm 39,000 0,0218 mm 0,0213 mm 0,0213 mm 0,0751 0,0000 0,9121 0,2212		Cam:O Img:146 Corv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0059 mm 0,0551 mm 0,0360 0,1354 0,8044 0,0481		/	<u>Cam:O Img:67</u> Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency	1 Part:5 0,9472 0,0087mm 0,3352mm 671,0000 0,0081mm 0,0080mm 0,0534mm 0,0534mm 0,0534mm 0,0000 0,8181 0,0637
	Cam:O Img:39 P Conv XcMin XFMax ImageNo XMaWin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness	0,4180 <i>lart:1</i> 0,9736 0,0222 mm 0,0225 mm 0,0218 mm 0,0213 mm 0,0213 mm 0,0807 mm 0,0751 0,0000 0,9121 0,2212 0,2230		Cam:O Img:146 Conv XcMin XFeMax ImageNo XMadin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0099 mm 0,0551 mm 0,0360 0,1354 0,8044 0,0481 0,1876		/	Cam:0 Img:67 Corv XcMin XFeMax ImageNo XMadin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness	1 Part:5 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0080 mm 0,0080 mm 0,0534 mm 0,0260 0,0000 0,8181 0,0637 0,1592
	Cam:0 Img:39 P Conv XcMin XfeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency Compactness Circularity	0,4180 art:1 0,9736 0,0222 mm 0,2256 mm 39,0000 0,0218 mm 0,0218 mm 0,0218 mm 0,0218 mm 0,0507 mm 0,0507 mm 0,0501 0,0200 0,9121 0,2212 0,2230 0,4245		Cam:0 Img:146 Corv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency Compactness Cipculation	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0350 0,0350 0,1354 0,8044 0,0481 0,1876 0,2927		/	Cam:0 Img:67 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency Compactness Cipcularity	1 Part:5 0,9472 0,0087mm 0,3352mm 671,0000 0,0081mm 0,0081mm 0,0084 0,0081mm 0,0534mm 0,0534mm 0,0534mm 0,0537 0,51592 0,3479
	Cam:O Img:39 P Conv XcMin XFMax ImageNo XMaWin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	0,4180 <i>lart:1</i> 0,9736 0,0222 mm 39,0000 0,0218 mm 0,0213 mm 0,0807 mm 0,0751 0,0000 0,9121 0,2212 0,22730 0,4245		Cam:O Img:146 Conv XcMin XFeMax ImageNo XMadin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0099 mm 0,0551 mm 0,0360 0,1354 0,8044 0,0481 0,1876 0,2987		/	Cam:0 Img:67 Corv XcMin XFeMax ImageNo XMadin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	1 Part:5 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0080 mm 0,0080 mm 0,0260 0,0000 0,8181 0,0637 0,1592 0,2479
	Cam:O Img:39 P Conv XcWin XfeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	0,9736 0,9736 0,222 mm 0,2356 mm 39,0000 0,0218 mm 0,0807 mm 0,0807 mm 0,09751 0,0000 0,9121 0,2212 0,2230 0,4245		Cam:O Img:146 Corv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0351 mm 0,0351 mm 0,0350 0,1354 0,8044 0,481 0,1876 0,2987		/	Cam:0 Img:67 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency Compactness Circularity	1 Part:5 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0081 mm 0,0083 mm 0,0084 mm 0,00
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	Cam:0 Img:39 P Conv XcMin XfeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symetry Transparency Compactness Circularity Comv XcMin XfeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symetry Transparency	0,4180 <i>iart:1</i> 0,9736 0,0222 mm 0,2256 mm 39,0000 0,0218 mm 0,0807 mm 0,0807 mm 0,0751 0,0000 0,9121 0,2212 0,2730 0,4245 <i>Part:2</i> 0,8757 0,0292 mm 0,3731 mm 762,0000 0,0142 mm 0,0218 mm 0,0250 mm 0,0250 mm 0,0000 0,0218 mm 0,0250 mm 0,0782 0,0250 mm 0,0750 0,0550 mm 0,0550 mm 0,0550 mm 0,050 mm		Cam:O Img:146 Conv XcMin XfeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency Compactness Circularity Compactness Circularity Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0059 mm 0,0551 mm 0,0360 0,1354 0,8044 0,0481 0,1876 0,2987 2 Part:17 0,9552 0,0239 mm 0,4070 mm 624,0000 0,0226 mm 0,0226 mm 0,0226 mm 0,0226 mm 0,0226 mm 0,0233 mm 0,1026 mm 0,0233 mm			Cam: 0 Img: 67 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency Compactness Circularity Comv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundress Symmetry Transparency	0,212 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0081 mm 0,0083 mm 0,0053 mm 0,0081 mm 0,0081 mm 0,0053 mm 0,0000 0,8181 0,0637 0,1592 0,2479 0,9266 0,0158 mm 0,4539 mm 810,0000 0,0158 mm 0,9266 0,0158 mm 0,9347 0,0000 0,8997 0,556
	Cam:0 Img:39 P Conv XcMin XrEMax ImageNo XMaWin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity Cam:0 Img:762 Conv XcMin XFeMax ImageNo XMaWin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compact Ratio Roundness Symmetry Transparency Compact Ratio	0,4180 art:1 0,9736 0,222 mm 0,2356 mm 39,0000 0,0213 mm 0,0807 mm 0,09731 0,0900 0,9121 0,2212 0,2212 0,2730 0,4245		Cam:0 Img:146 Conv XCMin XFeMax ImageNo XMaMin XIrner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity Compactness Circularity Conv XCMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency Conv XArea Symmetry Transparency Conv Xarea Aspect Ratio Roundness Symmetry Transparency	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0351 mm 0,0360 0,1354 0,044 0,0481 0,1376 0,2987 5 Part:17 0,9552 0,0239 mm 0,4070 mm 624,0000 0,0226 mm 0,0233 mm 0,0226 mm 0,0236 0,1465 0,8738 0,0342 0,2521			Cam:0 Img:67 Conv XcMin XFeMax ImageNo XMaMin XIrner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity Cam:0 Img:81 Conv XcMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness	0,9472 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0080 mm 0,0260 0,0000 0,8181 0,0260 0,0000 0,8181 0,0637 0,1592 0,2479 0.9266 0,0158 mm 0,4539 mm 810,0000 0,0148 mm 0,0154 mm 0,0260 mm 0,0347 0,0000 0,8997 0,0556 0,1729
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	Cam:0 Img:39 P Conv XcMin XrEMax ImageNo XMaWin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity Cam:0 Img:762 Conv XcMin XFeMax ImageNo XMaWin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	0,4280 art:1 0,9736 0,222 mm 0,2356 mm 39,0000 0,0213 mm 0,0807 mm 0,0971 0,0913 mm 0,0913 mm 0,0900 0,9121 0,2212 0,2730 0,4245		Cam:0 Img:146 Conv XCMin XFeMax ImageNo XMaMin XIrner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity Compactness Circularity Conv XCMin XFeMax ImageNo XMaMin XInner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	5 Part:12 0,9365 0,0106 mm 0,2938 mm 146,0000 0,0100 mm 0,0351 mm 0,0360 0,1354 0,044 0,0481 0,1376 0,2987 5 Part:17 0,9552 0,0239 mm 0,4070 mm 624,0000 0,0226 mm 0,0238 mm 0,0238 mm 0,0238 mm 0,0226 mm 0,0238 mm 0,0228 mm 0,028 mm 0,038 mm 0,03			Cam:0 Img:67 Conv XcMin XFeMax ImageNo XMaMin XIrner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity Cam:0 Img:81 Conv XcMin XFeMax ImageNo XMaMin XIrner XArea Aspect Ratio Roundness Symmetry Transparency Compactness Circularity	0,9472 0,9472 0,0087 mm 0,3352 mm 671,0000 0,0080 mm 0,0260 0,0000 0,8181 0,0260 0,0000 0,8181 0,0637 0,1592 0,2479 0.9266 0,0158 mm 0,4539 mm 810,0000 0,0148 mm 0,0154 mm 0,0556 0,1779 0,2812

Fig. 10: The 30 longest particles of sample 2

MICROTRAC

CAMSIZER M1: benefits at a glance

- Static image analysis (ISO 13322-1) from 0,5 μm 1500 μm
- 18.1 Megapixel camera
- Up to six objective lenses
- Transmitted and reflected light
- High precision sample stage
- Max. digital resolution: 35 nm
- M-Jet dispersion module
- Particle X-Plorer Software
- Precise analysis of small particles



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