

Task:**Application field:** Agriculture**Material:** Aluminium oxide (Al₂O₃)**Feed size:** presumed particle size 80 to 220 µm**Feed quantity:** about 100 g for each sample**Material specification(s):** dry**Customer requirements(s):** Required particle size fraction: 110 µm**Subsequent analysis:** Particle size analysis**Solution****Selected Instrument(s):** Vibratory Sieve Shaker AS 200 control**Configuration(s)****Item nos.:**

1 x AS 200 control, 100-240 V, 50/60 Hz, incl. test report acc. EN 10204 2.2

1 x Clamping device "comfort" for test sieves 200/203 mm ø

1 x Collecting pan stainless steel, ø 200x50 mm

1 x Test Sieve, ISO 3310/1, 200x50mm, 63µm, stainless steel, with compliance certificate acc. EN 10204 2.1

1 x Test Sieve, ISO 3310/1, 200x50mm, 90µm, stainless steel, with compliance certificate acc. EN 10204 2.1

1 x Test Sieve, ISO 3310/1, 200x50mm, 106µm, stainless steel, with compliance certificate acc. EN 10204 2.1

1 x Test Sieve, ISO 3310/1, 200x50mm, 150µm, stainless steel, with compliance certificate acc. EN 10204 2.1

1 x Test Sieve, ISO 3310/1, 200x50mm, 180µm, stainless steel, with compliance certificate acc. EN 10204 2.1

1 x Test Sieve, ISO 3310/1, 200x50mm, 212µm, stainless steel, with compliance certificate acc. EN 10204 2.1

1 x EasySieve, for Windows® 2000/XP/Vista/7, English/German, Single-user-licence, -SR-incl. adapter RS232-USB

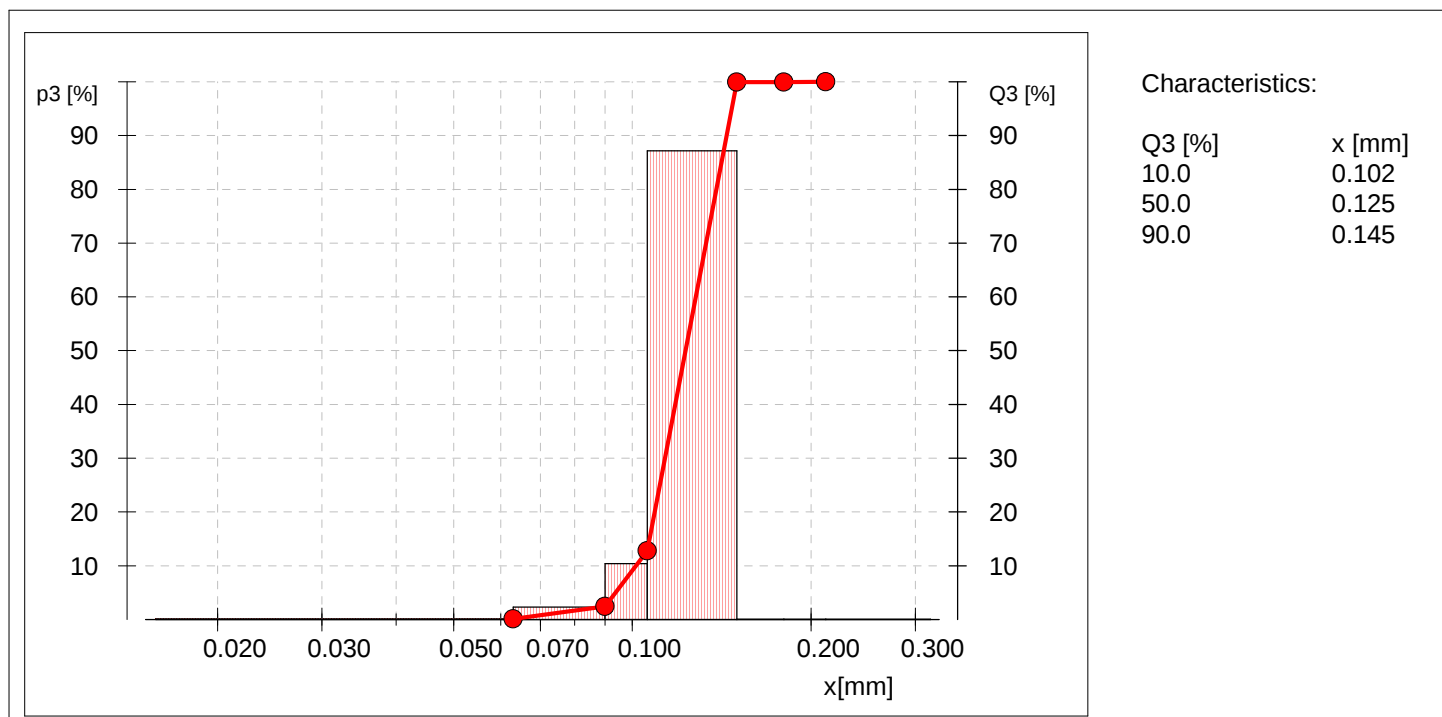
Please note: Other electrical versions of the instrument(s) are available with different item numbers.

Parameter(s): Amplitude 1.3 mm, Interval 10 sec**Time:** 5 min**Achieved result(s):** See Test Report EasySieve**Remark(s):** Sieves 110 µm and 220 µm acc. to ISO 3310-1 are not available. The closest possible aperture size is 112 µm and 224 µm respectively.**Recommendation:** The Vibratory Sieve Shaker AS 200 control is suitable to analyse the sample material under the above mentioned conditions.

Retsch Sieve Analysis

Company:	Appledesign s.r.o.		
User:	GBE		
Result file:	... Users\Anwendungsdaten\EasySieve\SIEVEDAT\13957_Corund\13957_Corund_002.rdf		
Task file:	13957_Corund.afg	Size classes file:	13957_Corund-2.gkl
Date:	4. 9.2012 16:35	Sieving duration [mm:ss]:	05:00
Sieve machine:	AS 200 control	Amplitude [mm]:	1.3
Interval working		Interval time [s]:	10.0
Material:	Corund Sample 1		
Sample quantity [g]:	101.27	Sum loaded sieve weights [g]: 101.26	
Sieve loss [%]:	0.01		
Sampling:	./.	Sample preparation:	Sample dividing by PT 100
Sieve method:	three-dimensional AS 200	Sieve diameter:	200 x 50 mm
Sieves according to standard:	DIN ISO 3310-1	Sieving aids:	No sieving aids
Comment:			

Size class [mm]	p3 [%]	Q3 [%]	Δm [g]	$\Sigma \Delta m$ [g]
< 0.063	0.1	0.1	0.12	0.12
0.063 - 0.090	2.3	2.4	2.33	2.45
0.090 - 0.106	10.4	12.8	10.49	12.94
0.106 - 0.150	87.2	99.9	88.25	101.19
0.150 - 0.180	0.0	100.0	0.03	101.22
0.180 - 0.212	0.0	100.0	0.02	101.24
> 0.212	0.0	100.0	0.02	101.26

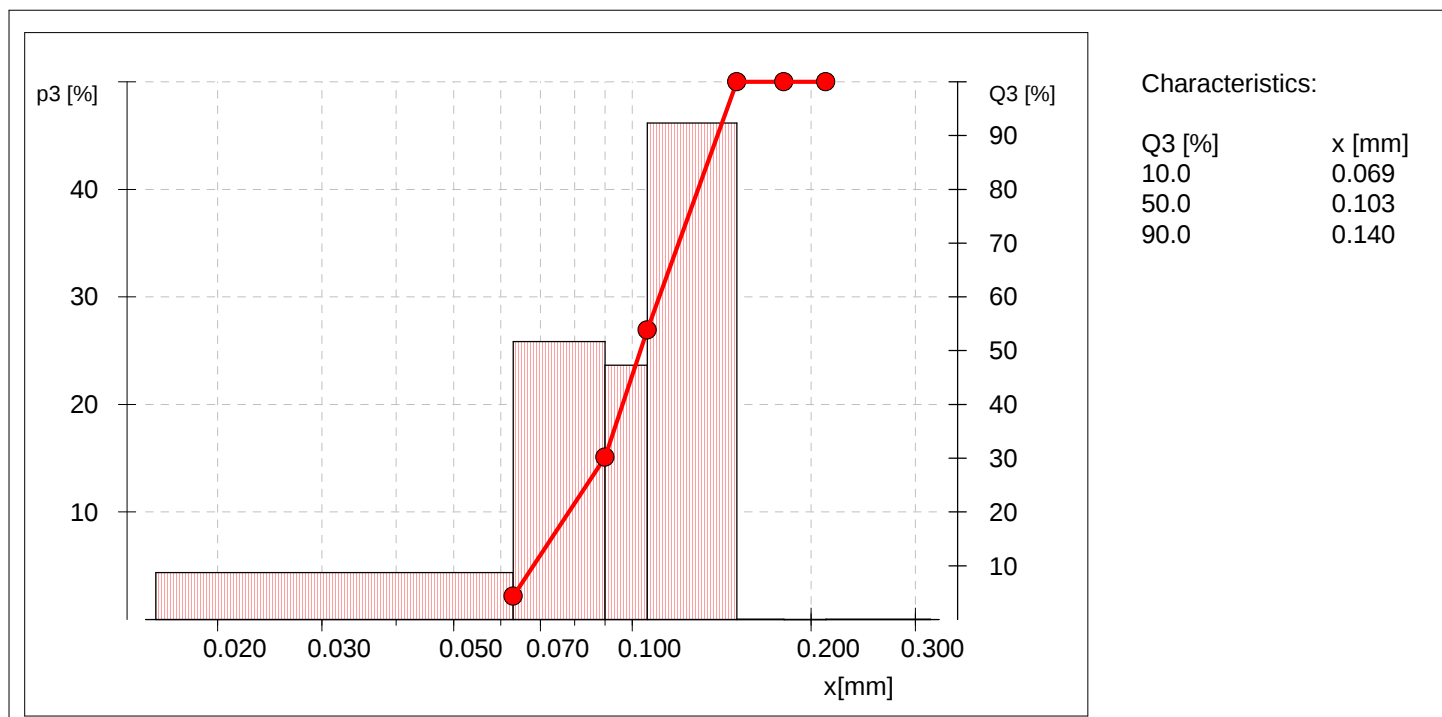


User: _____

Retsch Sieve Analysis

Company:	Appledesign s.r.o.		
User:	GBE		
Result file:	... Users\Anwendungsdaten\EasySieve\SIEVEDAT\13957_Corund\13957_Corund_001.rdf		
Task file:	13957_Corund.afg	Size classes file:	13957_Corund-2.gkl
Date:	4. 9.2012 16:20	Sieving duration [mm:ss]:	05:00
Sieve machine:	AS 200 control	Amplitude [mm]:	1.3
Interval working		Interval time [s]:	10.0
Material:	Corund Sample 2		
Sample quantity [g]:	98.42	Sum loaded sieve weights [g]: 98.37	
Sieve loss [%]:	0.05		
Sampling:	./.	Sample preparation:	Sample dividing by PT 100
Sieve method:	three-dimensional AS 200	Sieve diameter:	200 x 50 mm
Sieves according to standard:	DIN ISO 3310-1	Sieving aids:	No sieving aids
Comment:			

Size class [mm]	p3 [%]	Q3 [%]	Δm [g]	$\Sigma \Delta m$ [g]
< 0.063	4.4	4.4	4.28	4.28
0.063 - 0.090	25.8	30.2	25.42	29.70
0.090 - 0.106	23.6	53.8	23.25	52.95
0.106 - 0.150	46.2	100.0	45.40	98.35
0.150 - 0.180	0.0	100.0	0.01	98.36
0.180 - 0.212	0.0	100.0	0.00	98.36
> 0.212	0.0	100.0	0.01	98.37



User: _____

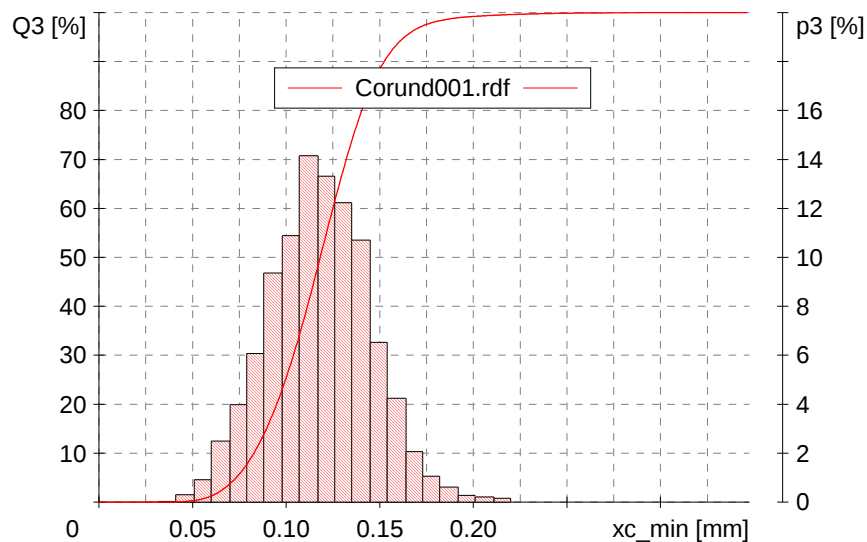
**Retsch Particle analysis**

Firma: Appledesign
Bearbeiter: GBE
Ergebnisdatei: G:_ANWENDUNGSTECHNIK\Testbericht\Camsizer\CAMDAT\R13957\Corund001.rdf
Messaufgabe: C:\Camsizer\CAMSYS\R13957_Corund.afg
Messzeit: 05.09.2012 , 9:45 , Dauer 47 min 33 s bei 0.5 % Dichte, Bildrate 1:1 und 60 mm Rinne

Partikelmodell: xc_min
Partikelanzahl: CCD-B = 47152954 , CCD-Z = 3544355
Anpassung: nein

Material: Corund sample 1

Kornklasse	[mm]	p3 [%]	Q3 [%]	Kornklasse	[mm]	p3 [%]	Q3 [%]
	< 0.032	0.00	0.00	0.126 -	0.135	12.23	73.75
0.032 -	0.041	0.03	0.03	0.135 -	0.145	10.71	84.46
0.041 -	0.051	0.30	0.33	0.145 -	0.154	6.53	90.99
0.051 -	0.060	0.92	1.25	0.154 -	0.164	4.24	95.23
0.060 -	0.070	2.49	3.74	0.164 -	0.173	2.06	97.29
0.070 -	0.079	3.98	7.72	0.173 -	0.182	1.06	98.35
0.079 -	0.088	6.08	13.80	0.182 -	0.192	0.61	98.96
0.088 -	0.098	9.35	23.15	0.192 -	0.201	0.28	99.24
0.098 -	0.107	10.89	34.04	0.201 -	0.211	0.21	99.45
0.107 -	0.117	14.16	48.20	0.211 -	0.220	0.15	99.60
0.117 -	0.126	13.32	61.52	> 0.220		0.40	100.00

**Kenngrößen**

Q3 [%]	x [mm]
10.0	0.083
50.0	0.118
90.0	0.152
Mv3(x) =	0.118 mm
Sigma3(x) =	0.028 mm

Bearbeiter

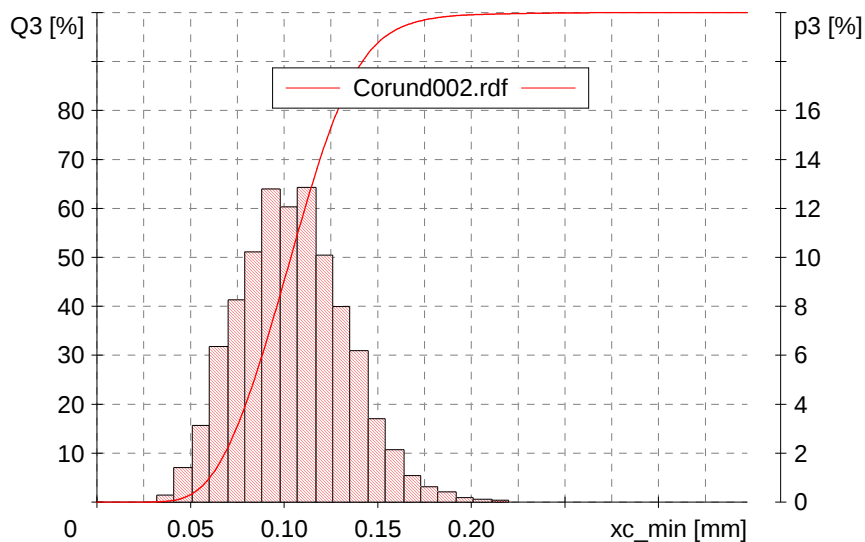
**Retsch Particle analysis**

Firma: Appledesign
Bearbeiter: GBE
Ergebnisdatei: G:_ANWENDUNGSTECHNIK\Testbericht\Camsizer\CAMDAT\R13957\Corund002.rdf
Messaufgabe: C:\Camsizer\CAMSYS\R13957_Corund.afg
Messzeit: 05.09.2012 , 11:03 , Dauer 38 min 54 s bei 0.5 % Dichte, Bildrate 1:1 und 60 mm Rinne

Partikelmodell: xc_min
Partikelanzahl: CCD-B = 41013161 , CCD-Z = 5393844
Anpassung: nein

Material: Corund sample 2

Kornklasse	[mm]	p3 [%]	Q3 [%]	Kornklasse	[mm]	p3 [%]	Q3 [%]
	< 0.032	0.06	0.06	0.126 -	0.135	7.99	85.52
0.032 -	0.041	0.28	0.34	0.135 -	0.145	6.18	91.70
0.041 -	0.051	1.41	1.75	0.145 -	0.154	3.40	95.10
0.051 -	0.060	3.13	4.88	0.154 -	0.164	2.15	97.25
0.060 -	0.070	6.36	11.24	0.164 -	0.173	1.08	98.33
0.070 -	0.079	8.26	19.50	0.173 -	0.182	0.63	98.96
0.079 -	0.088	10.22	29.72	0.182 -	0.192	0.42	99.38
0.088 -	0.098	12.79	42.51	0.192 -	0.201	0.19	99.57
0.098 -	0.107	12.06	54.57	0.201 -	0.211	0.11	99.68
0.107 -	0.117	12.87	67.44	0.211 -	0.220	0.09	99.77
0.117 -	0.126	10.09	77.53	> 0.220		0.23	100.00

**Kenngrößen**

Q3 [%]	x [mm]
10.0	0.068
50.0	0.104
90.0	0.142
Mv3(x) =	0.105 mm
Sigma3(x) =	0.029 mm

Bearbeiter