Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

LP Analysis Time: 17.06.2020 09:31:44
HP Analysis Time: 17.06.2020 11:03:29
Report Time: 29.06.2020 10:41:00
Report Range: 0,0007 to 410,0000 MPa
Adv. Contact Angle: 140,000 °
Rec. Contact Angle: 140,000 °
Penetrometer ID: 0063 - (07) 5 Bulb, 0.38 Stem, Solid
Penetrometer Mass: 56,8690 g

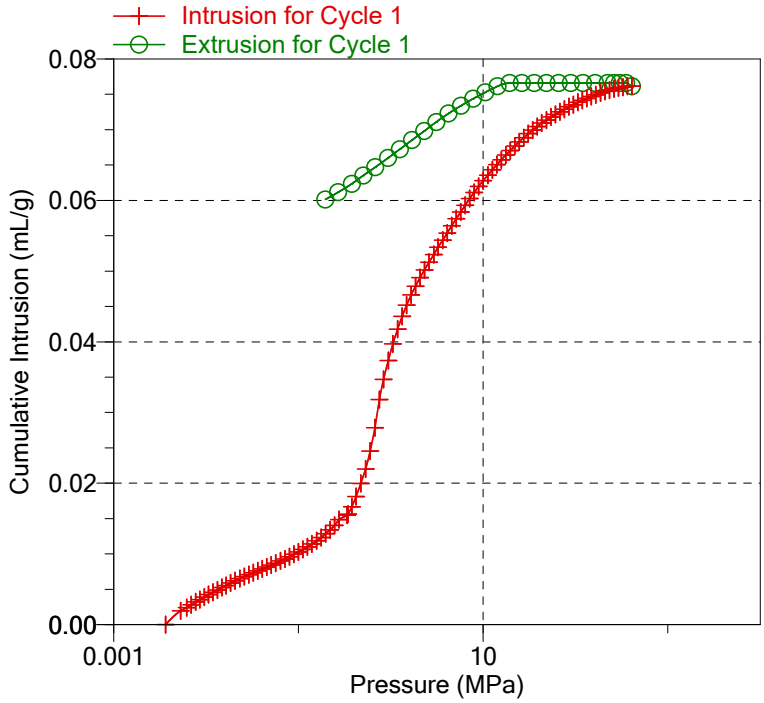
Sample Mass: 2,1518 g
Stem Volume Used: 45 %
Show Neg. Int: No
Correction Type: None
Mercury Temperature: 22,81 °C
Assembly Mass: 125,1415 g
Penetrometer Volume: 5,8685 mL

Summary Report

Intrusion Data Summary

Total intrusion volume at 407,9847 MPa: 0,0761 mL/g
Total pore area at 407,9847 MPa: 2,421 m²/g
Median pore diameter (volume) at 0,9712 MPa and 0,038 mL/g: 1,51441 µm
Median pore diameter (area) at 97,4643 MPa and 1,211 m²/g: 0,01509 µm
Average pore diameter (4V/A): 0,12578 µm
Bulk density at 0,0036 MPa: 2,1848 g/mL
Apparent (skeletal) density at 407,9847 MPa: 2,6206 g/mL
Porosity: 16,6328 %
Report pressure range: 0,0007 to 410,0000 MPa
Report pore diameter range: 0,00359 to 2.133,22663 µm

Cumulative Intrusion vs Pressure



Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

LP Analysis Time: 17.06.2020 09:31:44
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Sample Mass: 2,1518 g
Stem Volume Used: 45 %
Show Neg. Int: No
Correction Type: None
Mercury Temperature: 22,81 °C
Assembly Mass: 125,1415 g
Penetrometer Volume: 5,8685 mL

Tabular Report

Pressure (MPa)	Pore Diameter (µm)	Incremental Pore Volume (mL/g)	Cumulative Pore Volume (mL/g)	Smoothed dV/dD Pore Volume (/µm·mL/g)	Smoothed dV/dlogD Pore Volume (mL/g)
0.0036	405.14063	0.0000	0.0000	1.232×10^{-5}	1.177×10^{-2}
0.0053	276.62365	0.0019	0.0019	1.473×10^{-5}	9.607×10^{-3}
0.0062	238.04560	0.0005	0.0024	1.397×10^{-5}	7.838×10^{-3}
0.0069	212.85703	0.0004	0.0028	1.559×10^{-5}	7.823×10^{-3}
0.0077	190.87984	0.0004	0.0032	1.730×10^{-5}	7.782×10^{-3}
0.0086	171.56793	0.0003	0.0035	1.866×10^{-5}	7.547×10^{-3}
0.0095	154.02536	0.0004	0.0039	2.039×10^{-5}	7.401×10^{-3}
0.0106	138.21635	0.0003	0.0042	2.213×10^{-5}	7.211×10^{-3}
0.0119	124.00098	0.0003	0.0046	2.388×10^{-5}	6.979×10^{-3}
0.0132	111.01755	0.0003	0.0049	2.585×10^{-5}	6.765×10^{-3}
0.0148	99.38638	0.0003	0.0052	2.880×10^{-5}	6.745×10^{-3}
0.0165	89.11125	0.0003	0.0055	3.243×10^{-5}	6.812×10^{-3}
0.0184	79.83281	0.0004	0.0059	3.564×10^{-5}	6.705×10^{-3}
0.0206	71.27484	0.0003	0.0062	3.806×10^{-5}	6.394×10^{-3}
0.0231	63.62662	0.0003	0.0065	4.028×10^{-5}	6.042×10^{-3}
0.0259	56.72569	0.0003	0.0068	4.303×10^{-5}	5.754×10^{-3}
0.0290	50.80072	0.0003	0.0071	4.648×10^{-5}	5.566×10^{-3}
0.0324	45.35288	0.0003	0.0073	5.128×10^{-5}	5.483×10^{-3}
0.0363	40.54183	0.0003	0.0076	5.686×10^{-5}	5.435×10^{-3}
0.0406	36.24025	0.0003	0.0079	6.365×10^{-5}	5.438×10^{-3}
0.0454	32.36471	0.0003	0.0081	7.291×10^{-5}	5.563×10^{-3}
0.0508	28.92511	0.0003	0.0084	8.462×10^{-5}	5.769×10^{-3}
0.0569	25.85191	0.0003	0.0087	9.770×10^{-5}	5.953×10^{-3}
0.0637	23.09513	0.0003	0.0090	1.114×10^{-4}	6.062×10^{-3}
0.0712	20.66060	0.0003	0.0093	1.286×10^{-4}	6.267×10^{-3}
0.0797	18.45217	0.0003	0.0096	1.521×10^{-4}	6.616×10^{-3}
0.0895	16.43513	0.0004	0.0099	1.794×10^{-4}	6.951×10^{-3}
0.1001	14.69392	0.0003	0.0103	2.072×10^{-4}	7.175×10^{-3}

Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

LP Analysis Time: 17.06.2020 09:31:44
HP Analysis Time: 17.06.2020 11:03:29
Report Time: 29.06.2020 10:41:00
Report Range: 0,0007 to 410,0000 MPa
Adv. Contact Angle: 140,000 °
Rec. Contact Angle: 140,000 °
Penetrometer ID: 0063 - (07) 5 Bulb, 0.38 Stem, Solid
Penetrometer Mass: 56,8690 g

Sample Mass: 2,1518 g
Stem Volume Used: 45 %
Show Neg. Int: No
Correction Type: None
Mercury Temperature: 22,81 °C
Assembly Mass: 125,1415 g
Penetrometer Volume: 5,8685 mL

Tabular Report

Pressure (MPa)	Pore Diameter (µm)	Incremental Pore Volume (mL/g)	Cumulative Pore Volume (mL/g)	Smoothed dV/dD Pore Volume (/µm·mL/g)	Smoothed dV/dlogD Pore Volume (mL/g)
0.1119	13.13878	0.0003	0.0106	2.408×10^{-4}	7.458×10^{-3}
0.1252	11.74599	0.0004	0.0110	2.852×10^{-4}	7.901×10^{-3}
0.1401	10.50159	0.0004	0.0114	3.429×10^{-4}	8.491×10^{-3}
0.1568	9.37903	0.0005	0.0119	4.231×10^{-4}	9.358×10^{-3}
0.1754	8.38459	0.0005	0.0123	5.249×10^{-4}	1.037×10^{-2}
0.1963	7.49420	0.0006	0.0129	6.378×10^{-4}	1.127×10^{-2}
0.2196	6.69891	0.0006	0.0134	7.965×10^{-4}	1.257×10^{-2}
0.2457	5.98624	0.0006	0.0140	9.564×10^{-4}	1.349×10^{-2}
0.2750	5.34909	0.0008	0.0148	9.127×10^{-4}	1.151×10^{-2}
0.3354	4.38463	0.0006	0.0155	1.492×10^{-3}	1.542×10^{-2}
0.3451	4.26152	0.0002	0.0156	1.763×10^{-3}	1.774×10^{-2}
0.3782	3.88870	0.0010	0.0167	2.844×10^{-3}	2.605×10^{-2}
0.4213	3.49143	0.0014	0.0181	4.085×10^{-3}	3.364×10^{-2}
0.4735	3.10606	0.0019	0.0200	5.279×10^{-3}	3.865×10^{-2}
0.5324	2.76285	0.0020	0.0220	7.088×10^{-3}	4.615×10^{-2}
0.5977	2.46088	0.0025	0.0245	1.005×10^{-2}	5.823×10^{-2}
0.6714	2.19068	0.0033	0.0279	1.347×10^{-2}	6.955×10^{-2}
0.7543	1.94992	0.0040	0.0318	1.503×10^{-2}	6.915×10^{-2}
0.8338	1.76401	0.0029	0.0347	1.455×10^{-2}	6.055×10^{-2}
0.9386	1.56698	0.0027	0.0374	1.356×10^{-2}	5.010×10^{-2}
1.0542	1.39519	0.0023	0.0397	1.339×10^{-2}	4.404×10^{-2}
1.1806	1.24585	0.0021	0.0418	1.339×10^{-2}	3.934×10^{-2}
1.3245	1.11047	0.0018	0.0436	1.325×10^{-2}	3.466×10^{-2}
1.4778	0.99527	0.0016	0.0452	1.319×10^{-2}	3.095×10^{-2}
1.6631	0.88437	0.0014	0.0466	1.334×10^{-2}	2.781×10^{-2}
1.8482	0.79582	0.0012	0.0479	1.375×10^{-2}	2.580×10^{-2}
2.0707	0.71030	0.0012	0.0491	1.429×10^{-2}	2.392×10^{-2}
2.3137	0.63568	0.0011	0.0502	1.499×10^{-2}	2.246×10^{-2}

Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

LP Analysis Time: 17.06.2020 09:31:44
HP Analysis Time: 17.06.2020 11:03:29
Report Time: 29.06.2020 10:41:00
Report Range: 0,0007 to 410,0000 MPa
Adv. Contact Angle: 140,000 °
Rec. Contact Angle: 140,000 °
Penetrometer ID: 0063 - (07) 5 Bulb, 0.38 Stem, Solid
Penetrometer Mass: 56,8690 g

Sample Mass: 2,1518 g
Stem Volume Used: 45 %
Show Neg. Int: No
Correction Type: None
Mercury Temperature: 22,81 °C
Assembly Mass: 125,1415 g
Penetrometer Volume: 5,8685 mL

Tabular Report

Pressure (MPa)	Pore Diameter (µm)	Incremental Pore Volume (mL/g)	Cumulative Pore Volume (mL/g)	Smoothed dV/dD Pore Volume (/µm·mL/g)	Smoothed dV/dlogD Pore Volume (mL/g)
2.5962	0.56652	0.0011	0.0513	1.626×10^{-2}	2.172×10^{-2}
2.9125	0.50500	0.0011	0.0523	1.795×10^{-2}	2.137×10^{-2}
3.2435	0.45346	0.0010	0.0534	1.965×10^{-2}	2.100×10^{-2}
3.6515	0.40279	0.0010	0.0544	2.194×10^{-2}	2.083×10^{-2}
4.0702	0.36136	0.0010	0.0554	2.439×10^{-2}	2.078×10^{-2}
4.5535	0.32301	0.0010	0.0564	2.668×10^{-2}	2.031×10^{-2}
5.1140	0.28761	0.0010	0.0574	2.910×10^{-2}	1.973×10^{-2}
5.7253	0.25690	0.0010	0.0584	3.247×10^{-2}	1.966×10^{-2}
6.3977	0.22990	0.0010	0.0593	3.600×10^{-2}	1.951×10^{-2}
7.1491	0.20573	0.0009	0.0603	3.867×10^{-2}	1.875×10^{-2}
7.9851	0.18419	0.0009	0.0611	4.108×10^{-2}	1.784×10^{-2}
8.9538	0.16427	0.0009	0.0620	4.399×10^{-2}	1.703×10^{-2}
9.9950	0.14715	0.0008	0.0628	4.713×10^{-2}	1.635×10^{-2}
11.2108	0.13120	0.0008	0.0636	5.091×10^{-2}	1.574×10^{-2}
12.5331	0.11735	0.0008	0.0643	5.493×10^{-2}	1.519×10^{-2}
14.0083	0.10500	0.0007	0.0650	5.901×10^{-2}	1.460×10^{-2}
15.6943	0.09372	0.0007	0.0658	6.354×10^{-2}	1.404×10^{-2}
17.5534	0.08379	0.0007	0.0664	6.853×10^{-2}	1.354×10^{-2}
19.6390	0.07489	0.0006	0.0671	7.372×10^{-2}	1.301×10^{-2}
21.9927	0.06688	0.0006	0.0677	7.921×10^{-2}	1.249×10^{-2}
24.5791	0.05984	0.0006	0.0683	8.516×10^{-2}	1.201×10^{-2}
27.5242	0.05344	0.0006	0.0689	9.220×10^{-2}	1.161×10^{-2}
30.7898	0.04777	0.0006	0.0694	9.820×10^{-2}	1.106×10^{-2}
34.4313	0.04272	0.0005	0.0699	1.035×10^{-1}	1.042×10^{-2}
38.5291	0.03817	0.0005	0.0704	1.100×10^{-1}	9.900×10^{-3}
43.1119	0.03412	0.0005	0.0709	1.174×10^{-1}	9.443×10^{-3}
48.2809	0.03046	0.0004	0.0714	1.244×10^{-1}	8.933×10^{-3}
54.0015	0.02724	0.0004	0.0718	1.298×10^{-1}	8.336×10^{-3}

Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

LP Analysis Time: 17.06.2020 09:31:44
HP Analysis Time: 17.06.2020 11:03:29
Report Time: 29.06.2020 10:41:00
Report Range: 0,0007 to 410,0000 MPa
Adv. Contact Angle: 140,000 °
Rec. Contact Angle: 140,000 °
Penetrometer ID: 0063 - (07) 5 Bulb, 0.38 Stem, Solid
Penetrometer Mass: 56,8690 g

Sample Mass: 2,1518 g
Stem Volume Used: 45 %
Show Neg. Int: No
Correction Type: None
Mercury Temperature: 22,81 °C
Assembly Mass: 125,1415 g
Penetrometer Volume: 5,8685 mL

Tabular Report

Pressure (MPa)	Pore Diameter (µm)	Incremental Pore Volume (mL/g)	Cumulative Pore Volume (mL/g)	Smoothed dV/dD Pore Volume (/µm·mL/g)	Smoothed dV/dlogD Pore Volume (mL/g)
60.4154	0.02434	0.0004	0.0722	1.349×10^{-1}	7.740×10^{-3}
67.5957	0.02176	0.0004	0.0725	1.422×10^{-1}	7.296×10^{-3}
75.6434	0.01944	0.0004	0.0729	1.535×10^{-1}	7.037×10^{-3}
84.6320	0.01738	0.0003	0.0732	1.649×10^{-1}	6.755×10^{-3}
94.7028	0.01553	0.0003	0.0735	1.767×10^{-1}	6.470×10^{-3}
105.9594	0.01388	0.0003	0.0739	1.884×10^{-1}	6.163×10^{-3}
118.5588	0.01241	0.0003	0.0741	2.013×10^{-1}	5.886×10^{-3}
132.6511	0.01109	0.0003	0.0744	2.150×10^{-1}	5.619×10^{-3}
148.4391	0.00991	0.0003	0.0747	2.290×10^{-1}	5.349×10^{-3}
166.0864	0.00886	0.0002	0.0749	2.422×10^{-1}	5.055×10^{-3}
185.8378	0.00791	0.0003	0.0752	2.536×10^{-1}	4.732×10^{-3}
207.9360	0.00707	0.0002	0.0754	2.604×10^{-1}	4.342×10^{-3}
232.6473	0.00632	0.0002	0.0756	2.582×10^{-1}	3.848×10^{-3}
260.3142	0.00565	0.0002	0.0758	2.383×10^{-1}	3.177×10^{-3}
291.2399	0.00505	0.0001	0.0759	2.113×10^{-1}	2.518×10^{-3}
325.8888	0.00451	0.0001	0.0760	1.748×10^{-1}	1.860×10^{-3}
364.6027	0.00403	0.0001	0.0761	1.056×10^{-1}	1.007×10^{-3}
407.9847	0.00361	0.0000	0.0761	5.976×10^{-2}	5.079×10^{-4}
354.4010	0.00415	0.0005	0.0766	-3.236×10^{-1}	-3.056×10^{-3}
300.7870	0.00489	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
261.2465	0.00563	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
221.7319	0.00663	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
163.5189	0.00899	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
120.5559	0.01220	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
88.9120	0.01654	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
65.5304	0.02244	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
48.3405	0.03043	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
35.6356	0.04127	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}

Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

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Adv. Contact Angle: 140,000 °
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Penetrometer ID: 0063 - (07) 5 Bulb, 0.38 Stem, Solid
Penetrometer Mass: 56,8690 g

Sample Mass: 2,1518 g
Stem Volume Used: 45 %
Show Neg. Int: No
Correction Type: None
Mercury Temperature: 22,81 °C
Assembly Mass: 125,1415 g
Penetrometer Volume: 5,8685 mL

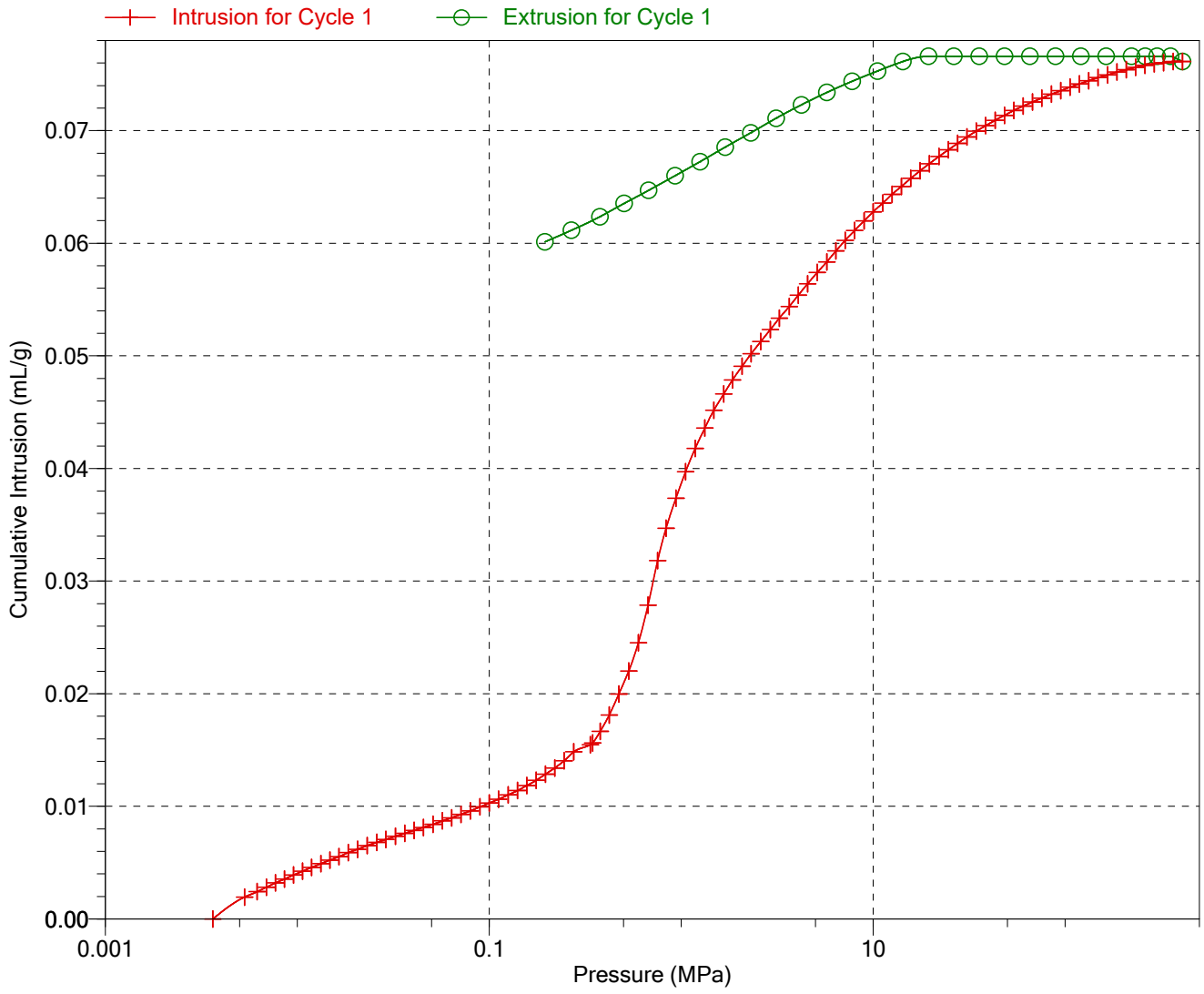
Tabular Report

Pressure (MPa)	Pore Diameter (µm)	Incremental Pore Volume (mL/g)	Cumulative Pore Volume (mL/g)	Smoothed dV/dD Pore Volume (/µm·mL/g)	Smoothed dV/dlogD Pore Volume (mL/g)
26.2849	0.05596	0.0000	0.0766	0.000×10^{0}	0.000×10^{0}
19.3867	0.07587	0.0000	0.0766	3.942×10^{-3}	6.777×10^{-4}
14.2770	0.10302	-0.0005	0.0761	2.439×10^{-2}	5.698×10^{-3}
10.5194	0.13982	-0.0008	0.0753	2.124×10^{-2}	6.733×10^{-3}
7.7736	0.18920	-0.0009	0.0744	1.671×10^{-2}	7.168×10^{-3}
5.7314	0.25662	-0.0010	0.0734	1.353×10^{-2}	7.876×10^{-3}
4.2293	0.34776	-0.0011	0.0723	1.093×10^{-2}	8.622×10^{-3}
3.1185	0.47164	-0.0012	0.0711	8.932×10^{-3}	9.553×10^{-3}
2.3011	0.63918	-0.0013	0.0698	6.669×10^{-3}	9.666×10^{-3}
1.6918	0.86938	-0.0013	0.0685	4.946×10^{-3}	9.751×10^{-3}
1.2553	1.17166	-0.0013	0.0672	3.668×10^{-3}	9.745×10^{-3}
0.9293	1.58262	-0.0012	0.0660	2.644×10^{-3}	9.488×10^{-3}
0.6756	2.17697	-0.0013	0.0647	1.876×10^{-3}	9.260×10^{-3}
0.5035	2.92132	-0.0012	0.0635	1.392×10^{-3}	9.218×10^{-3}
0.3776	3.89535	-0.0012	0.0624	1.019×10^{-3}	9.002×10^{-3}
0.2681	5.48670	-0.0012	0.0611	6.033×10^{-4}	7.506×10^{-3}
0.1950	7.54391	-0.0010	0.0601	4.335×10^{-4}	7.416×10^{-3}

Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

LP Analysis Time:	17.06.2020 09:31:44	Sample Mass:	2,1518 g
HP Analysis Time:	17.06.2020 11:03:29	Stem Volume Used:	45 %
Report Time:	29.06.2020 10:41:00	Show Neg. Int:	No
Report Range:	0,0007 to 410,0000 MPa	Correction Type:	None
Adv. Contact Angle:	140,000 °	Mercury Temperature:	22,81 °C
Rec. Contact Angle:	140,000 °	Assembly Mass:	125,1415 g
Penetrometer ID:	0063 - (07) 5 Bulb, 0.38 Stem, Solid	Penetrometer Volume:	5,8685 mL
Penetrometer Mass:	56,8690 g		

Cumulative Intrusion vs Pressure



Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
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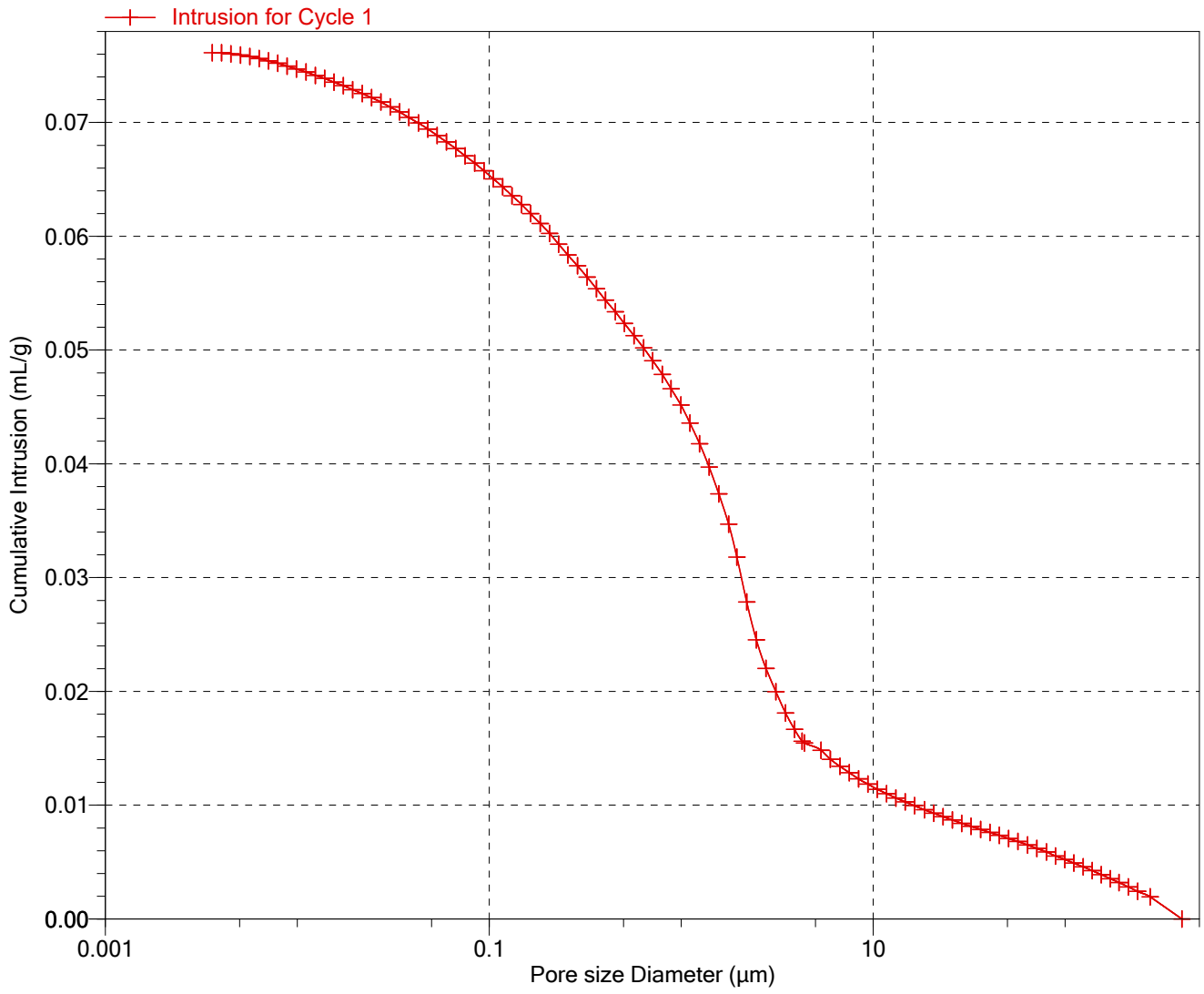
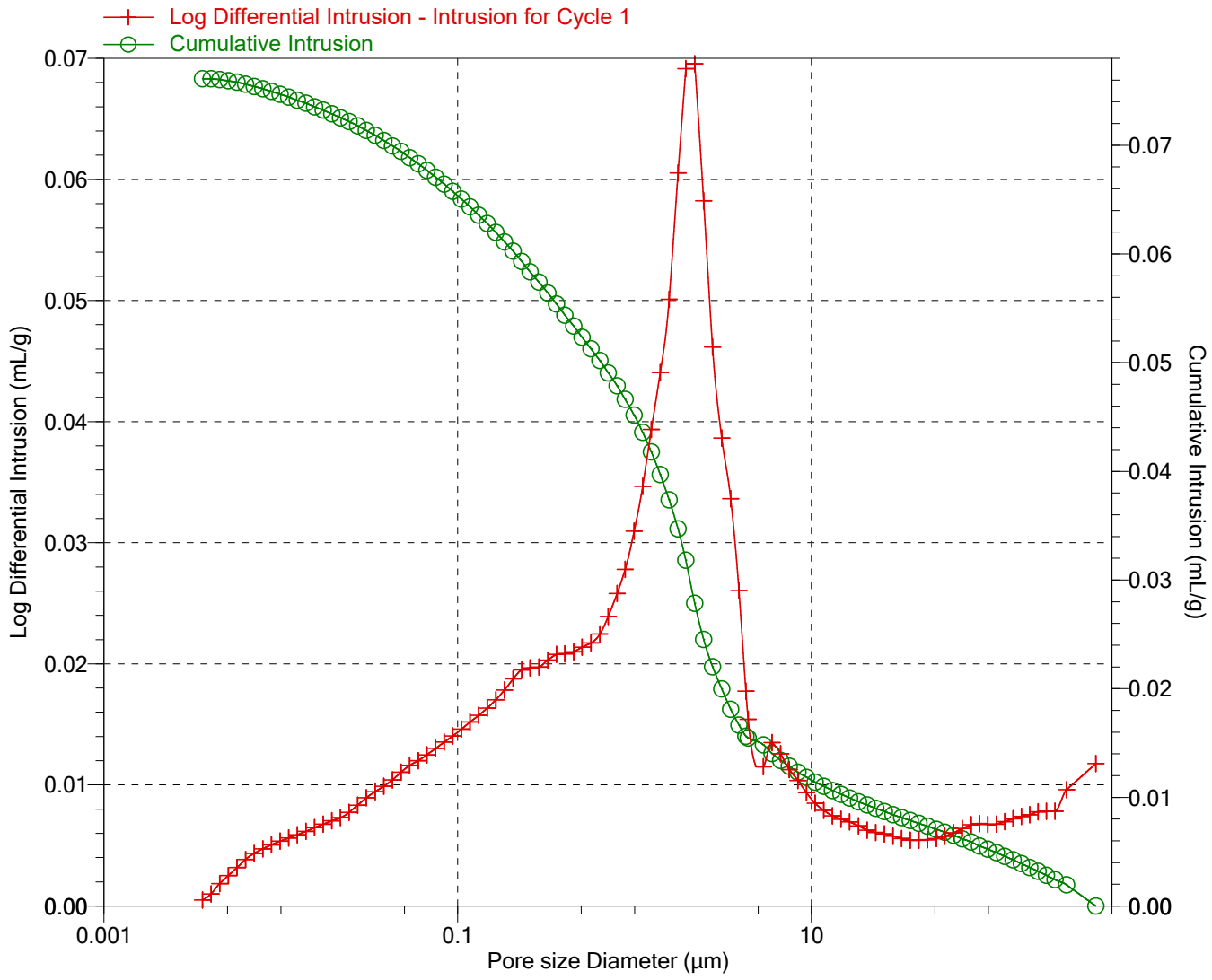
Penetrometer ID:	0063 - (07) 5 Bulb, 0.38 Stem, Solid	Penetrometer Volume:	5,8685 mL
Penetrometer Mass:	56,8690 g		

Cumulative Intrusion vs Pore size



Sample ID: Kylltaler Sandstein (2020) [6874]
Operator: Zimathies / BAM 6.3
Submitter: Sarah Nagel / BAM 8.2
Pre-treatment: 48h 40°C am ASAP
File: C:\MicroActive AutoPore V 9600\data\Kylltaler-823.SMP

LP Analysis Time:	17.06.2020 09:31:44	Sample Mass:	2,1518 g
HP Analysis Time:	17.06.2020 11:03:29	Stem Volume Used:	45 %
Report Time:	29.06.2020 10:41:00	Show Neg. Int:	No
Report Range:	0,0007 to 410,0000 MPa	Correction Type:	None
Adv. Contact Angle:	140,000 °	Mercury Temperature:	22,81 °C
Rec. Contact Angle:	140,000 °	Assembly Mass:	125,1415 g
Penetrometer ID:	0063 - (07) 5 Bulb, 0.38 Stem, Solid	Penetrometer Volume:	5,8685 mL
Penetrometer Mass:	56,8690 g		

Log Differential Intrusion vs Pore size