

File name: Sample ID
 Chemistr: Chemist Initials Material Name
 Submitter: Particle Technology Labs
 File: R:\Autopore V9620\data\reportexample2022.SMP

LP Analysis Time:	10/25/2022 11:48:17 AM	Sample Mass:	1.0118 g
HP Analysis Time:	10/25/2022 1:00:52 PM	Stem Volume Used:	49 %
Report Time:	2/14/2023 9:18:39 AM	Show Neg. Int:	No
Report Range:	0.10 to 61,000.00 psia	Correction Type:	Blank
Adv. Contact Angle:	130.000 °	Mercury Temperature:	18.38 °C
Rec. Contact Angle:	130.000 °	Assembly Mass:	132.9281 g
Penetrometer ID:	10-0747 - (10) 5 Bulb, 1.131	Penetrometer Volume:	5.9412 mL
	Stem, Powder		
Penetrometer Mass:	63.5568 g		

Summary Report

Intrusion Data Summary

Total intrusion volume at 59,933.21 psia:	0.5680 mL/g
Total pore area at 59,933.21 psia:	314.931 m ² /g
Median pore diameter (volume) at 26,362.74 psia and 0.284 mL/g:	0.00686 µm
Median pore diameter (area) at 26,646.31 psia and 157.465 m ² /g:	0.00679 µm
Average pore diameter (4V/A):	0.00721 µm
Bulk density at 5.00 psia:	1.1286 g/mL
Apparent (skeletal) density at 59,933.21 psia:	3.1461 g/mL
Porosity:	64.1258 %

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Penetrometer Mass:	63.5568 g		

Tabular Report

Pressure (psia)	Pore Diameter (µm)	Incremental Pore Volume (mL/g)	dV/dD Pore Volume (µm·mL/g)	Cumulative Pore Volume (mL/g)	% of Total Intrusion Volume
5.00	36.18136	0.0000	0.000 x 10 ⁰	-0.0002	-0.0337
5.00	36.18431	-0.0002	6.479 x 10 ⁻²	-0.0004	-0.0673
5.50	32.87440	0.0003	1.036 x 10 ⁻⁴	-0.0000	-0.0069
6.00	30.16228	0.0001	0.000 x 10 ⁰	0.0000	0.0064
7.49	24.13902	0.0002	2.680 x 10 ⁻⁵	0.0002	0.0348
8.49	21.30056	0.0002	7.691 x 10 ⁻⁵	0.0004	0.0733
10.49	17.24953	0.0002	4.687 x 10 ⁻⁵	0.0006	0.1067
12.98	13.93073	0.0001	3.418 x 10 ⁻⁵	0.0007	0.1267
15.98	11.32134	0.0002	7.265 x 10 ⁻⁵	0.0009	0.1601
19.96	9.06067	0.0000	0.000 x 10 ⁰	0.0009	0.1667
24.95	7.24869	0.0002	8.491 x 10 ⁻⁵	0.0011	0.1937
29.99	6.02990	0.0002	1.548 x 10 ⁻⁴	0.0013	0.2270
38.88	4.65236	0.0003	2.515 x 10 ⁻⁴	0.0016	0.2880
48.88	3.70024	0.0002	2.065 x 10 ⁻⁴	0.0018	0.3226
58.93	3.06907	0.0004	5.728 x 10 ⁻⁴	0.0022	0.3862
73.73	2.45298	0.0005	8.165 x 10 ⁻⁴	0.0027	0.4748
88.48	2.04411	0.0007	1.594 x 10 ⁻³	0.0033	0.5895
113.94	1.58740	0.0012	2.550 x 10 ⁻³	0.0045	0.7946
138.54	1.30549	0.0012	4.268 x 10 ⁻³	0.0057	1.0064
173.96	1.03971	0.0013	4.791 x 10 ⁻³	0.0070	1.2306
218.69	0.82703	0.0014	6.371 x 10 ⁻³	0.0083	1.4692
268.59	0.67339	0.0014	9.113 x 10 ⁻³	0.0097	1.7157
328.87	0.54996	0.0014	1.116 x 10 ⁻²	0.0111	1.9583
418.49	0.43219	0.0015	1.254 x 10 ⁻²	0.0126	2.2183

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Penetrometer Mass:	63.5568 g		

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Pressure (psia)	Pore Diameter (µm)	Incremental Pore Volume (mL/g)	dV/dD Pore Volume (µm·mL/g)	Cumulative Pore Volume (mL/g)	% of Total Intrusion Volume
518.54	0.34879	0.0015	1.783 x 10 ⁻²	0.0141	2.4800
637.89	0.28353	0.0016	2.409 x 10 ⁻²	0.0157	2.7568
797.71	0.22673	0.0016	2.872 x 10 ⁻²	0.0173	3.0440
987.92	0.18308	0.0017	4.007 x 10 ⁻²	0.0190	3.3520
1197.75	0.15100	0.0018	5.719 x 10 ⁻²	0.0209	3.6750
1497.15	0.12081	0.0019	6.283 x 10 ⁻²	0.0228	4.0090
1896.40	0.09537	0.0021	8.379 x 10 ⁻²	0.0249	4.3842
2345.67	0.07711	0.0022	1.206 x 10 ⁻¹	0.0271	4.7719
2894.14	0.06249	0.0024	1.612 x 10 ⁻¹	0.0295	5.1867
3593.54	0.05033	0.0026	2.109 x 10 ⁻¹	0.0320	5.6384
4491.14	0.04027	0.0028	2.815 x 10 ⁻¹	0.0349	6.1370
5582.74	0.03240	0.0031	3.892 x 10 ⁻¹	0.0379	6.6765
6876.96	0.02630	0.0032	5.299 x 10 ⁻¹	0.0412	7.2453
8563.09	0.02112	0.0036	6.921 x 10 ⁻¹	0.0447	7.8763
10569.84	0.01711	0.0038	9.543 x 10 ⁻¹	0.0486	8.5501
13163.71	0.01374	0.0043	1.280 x 10 ⁰	0.0529	9.3097
14763.25	0.01225	0.0046	3.097 x 10 ⁰	0.0575	10.1215
16368.03	0.01105	0.0046	3.855 x 10 ⁰	0.0621	10.9367
19963.18	0.00906	0.0046	2.337 x 10 ⁰	0.0668	11.7554
24839.79	0.00728	0.0383	2.156 x 10 ¹	0.1051	18.5067
24985.90	0.00724	0.0337	7.904 x 10 ²	0.1388	24.4322
26269.96	0.00688	0.1302	3.679 x 10 ²	0.2689	47.3485
26980.49	0.00670	0.1289	7.108 x 10 ²	0.3978	70.0381
27879.12	0.00649	0.0881	4.077 x 10 ²	0.4859	85.5464

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29991.16	0.00603	0.0362	7.919 x 10 ¹	0.5221	91.9157
34980.28	0.00517	0.0178	2.073 x 10 ¹	0.5399	95.0542
39947.13	0.00453	0.0052	8.095 x 10 ⁰	0.5451	95.9705
44951.17	0.00402	0.0054	1.064 x 10 ¹	0.5505	96.9142
49956.51	0.00362	0.0058	1.451 x 10 ¹	0.5563	97.9440
54951.80	0.00329	0.0058	1.774 x 10 ¹	0.5621	98.9720
59933.21	0.00302	0.0058	2.134 x 10 ¹	0.5680	100.0000
46101.49	0.00392	-0.0232	2.563 x 10 ¹	0.5448	95.9140
35498.16	0.00510	0.0001	0.000 x 10 ⁰	0.5448	95.9240
27308.24	0.00662	-0.0006	3.637 x 10 ⁻¹	0.5443	95.8261
21016.70	0.00861	-0.0017	8.579 x 10 ⁻¹	0.5426	95.5266
16019.31	0.01129	-0.0024	9.100 x 10 ⁻¹	0.5401	95.0965
12425.57	0.01456	-0.0028	8.444 x 10 ⁻¹	0.5374	94.6110
9628.27	0.01878	-0.0180	4.258 x 10 ⁰	0.5194	91.4409
8437.34	0.02144	-0.0889	3.353 x 10 ¹	0.4305	75.7867
7356.53	0.02459	-0.0659	2.093 x 10 ¹	0.3645	64.1812
7308.95	0.02475	-0.0065	4.090 x 10 ¹	0.3580	63.0287
5714.55	0.03165	-0.0191	2.762 x 10 ⁰	0.3389	59.6717
4307.39	0.04199	-0.0102	9.899 x 10 ⁻¹	0.3287	57.8697
3303.47	0.05475	-0.0086	6.752 x 10 ⁻¹	0.3201	56.3528
2603.50	0.06947	-0.0091	6.199 x 10 ⁻¹	0.3109	54.7463
2002.58	0.09032	-0.0123	5.906 x 10 ⁻¹	0.2986	52.5788
1501.76	0.12043	-0.0135	4.484 x 10 ⁻¹	0.2851	50.2012
1201.65	0.15051	-0.0099	3.302 x 10 ⁻¹	0.2752	48.4527

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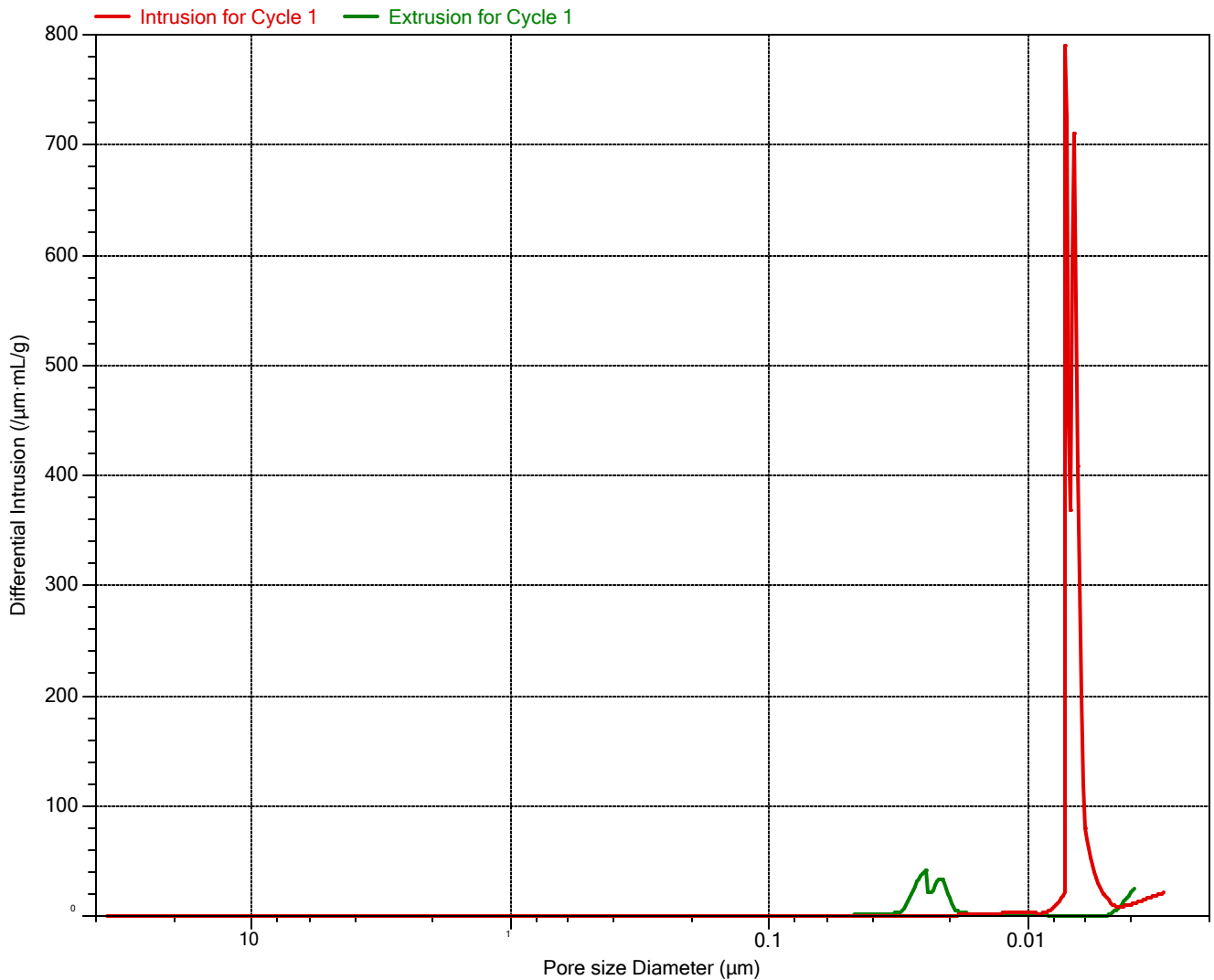
Tabular Report

Pressure (psia)	Pore Diameter (μm)	Incremental Pore Volume (mL/g)	dV/dD Pore Volume ($\mu\text{m}\cdot\text{mL/g}$)	Cumulative Pore Volume (mL/g)	% of Total Intrusion Volume
901.11	0.20071	-0.0117	2.325×10^{-1}	0.2635	46.3980
701.77	0.25773	-0.0089	1.562×10^{-1}	0.2546	44.8296
501.62	0.36056	-0.0092	8.970×10^{-2}	0.2454	43.2057
401.11	0.45090	-0.0061	6.805×10^{-2}	0.2393	42.1232
301.25	0.60037	-0.0061	4.069×10^{-2}	0.2332	41.0526
241.62	0.74855	-0.0050	3.402×10^{-2}	0.2281	40.1651
191.03	0.94678	-0.0044	2.230×10^{-2}	0.2237	39.3868
146.39	1.23549	-0.0043	1.505×10^{-2}	0.2194	38.6216
111.42	1.62325	-0.0040	1.040×10^{-2}	0.2153	37.9116
86.53	2.09026	-0.0039	8.305×10^{-3}	0.2115	37.2287
66.55	2.71753	-0.0038	6.003×10^{-3}	0.2077	36.5657
52.27	3.46028	-0.0038	5.054×10^{-3}	0.2039	35.9047
31.47	5.74807	-0.0058	2.535×10^{-3}	0.1981	34.8836
16.41	11.02148	-0.0085	1.606×10^{-3}	0.1897	33.3922

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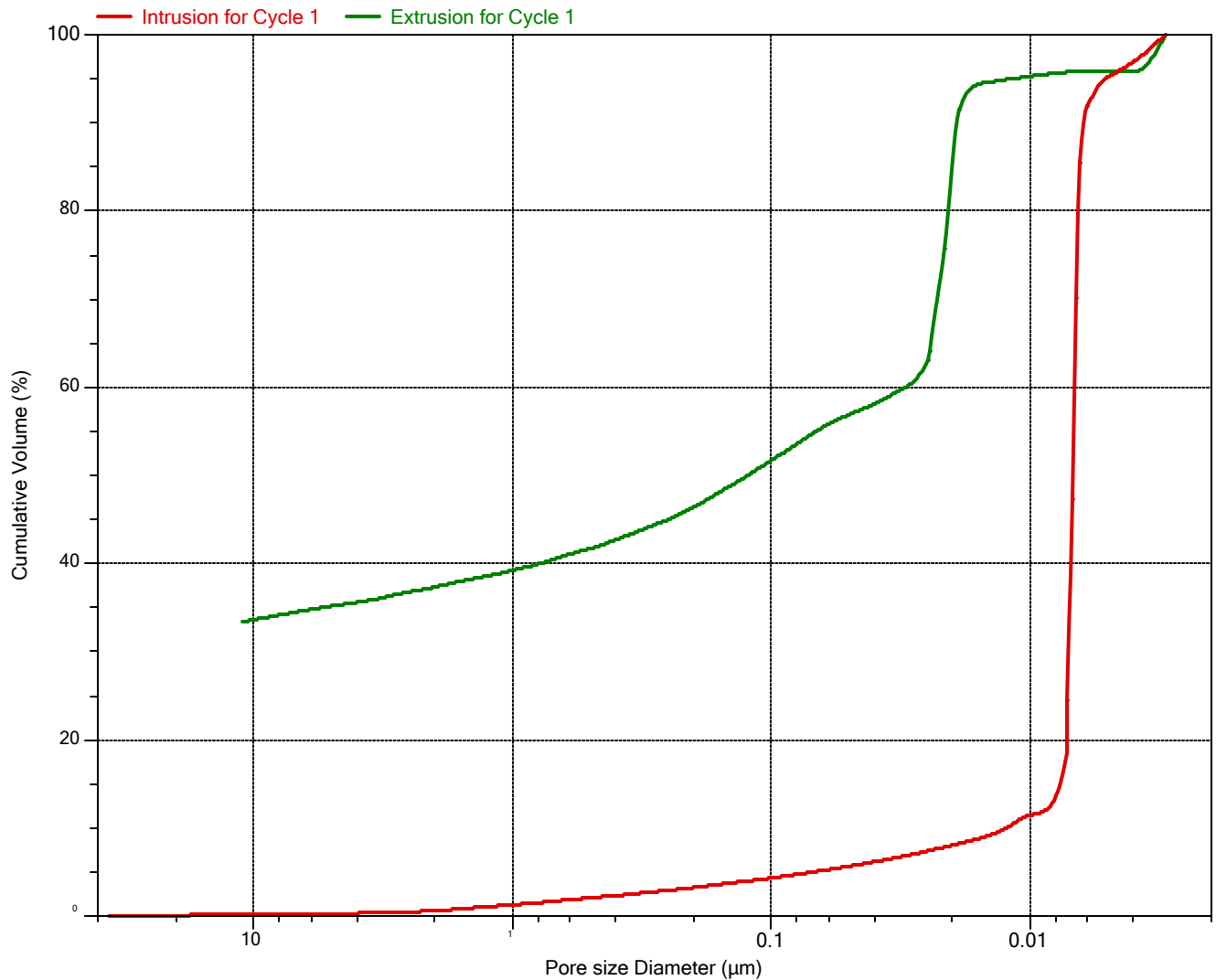
Differential Intrusion vs Pore size



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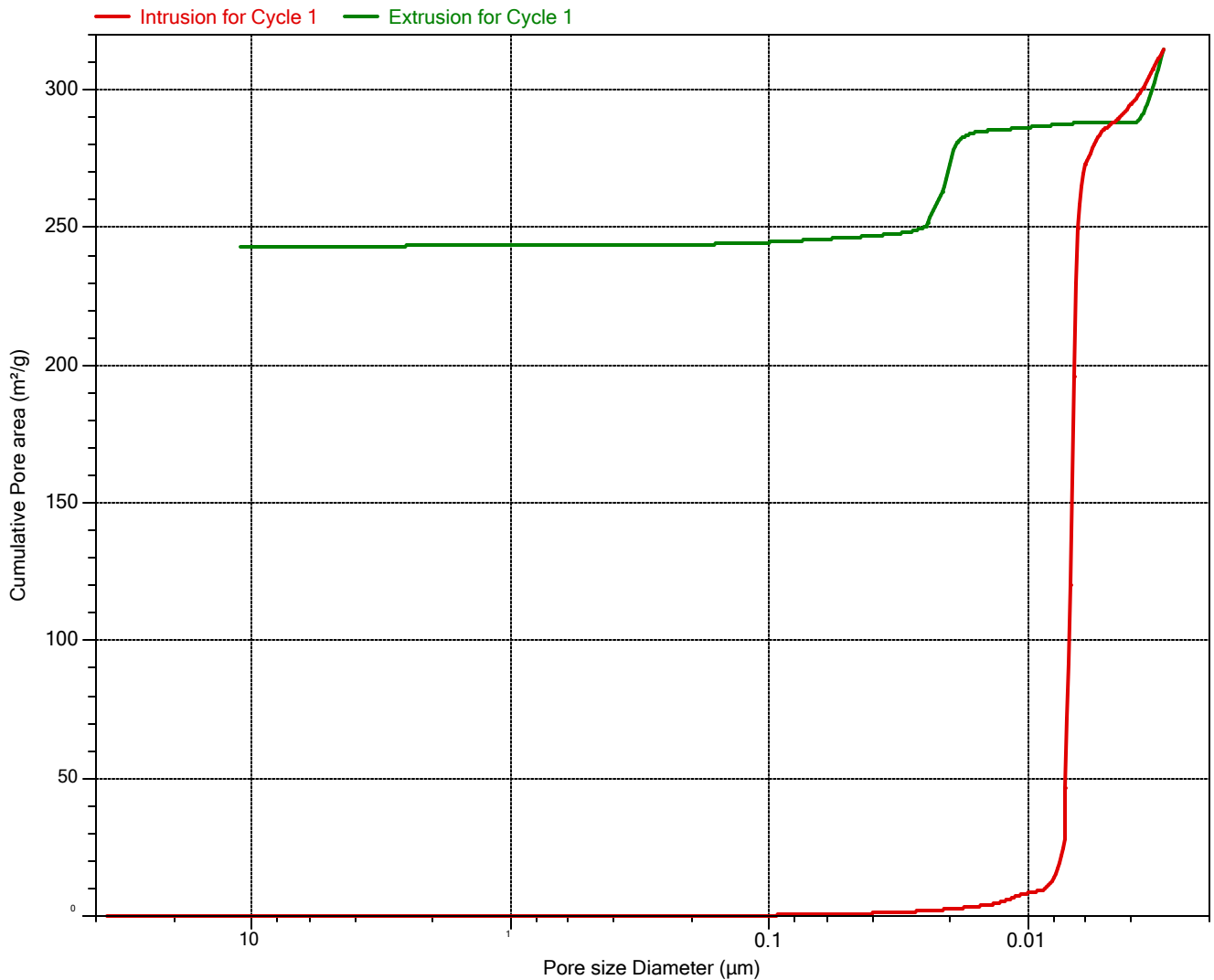
Cumulative Intrusion vs Pore size



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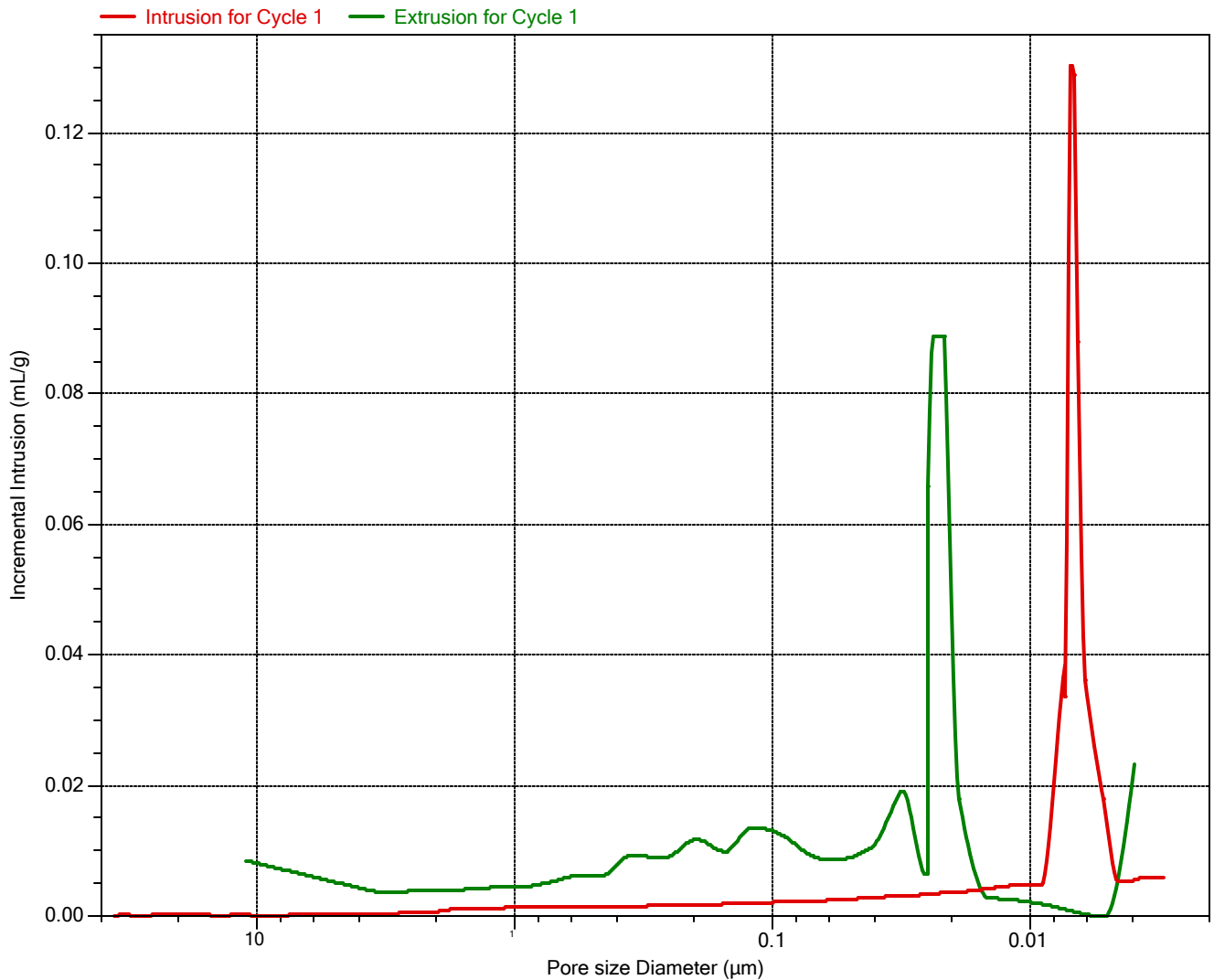
Cumulative Pore Area vs Pore size



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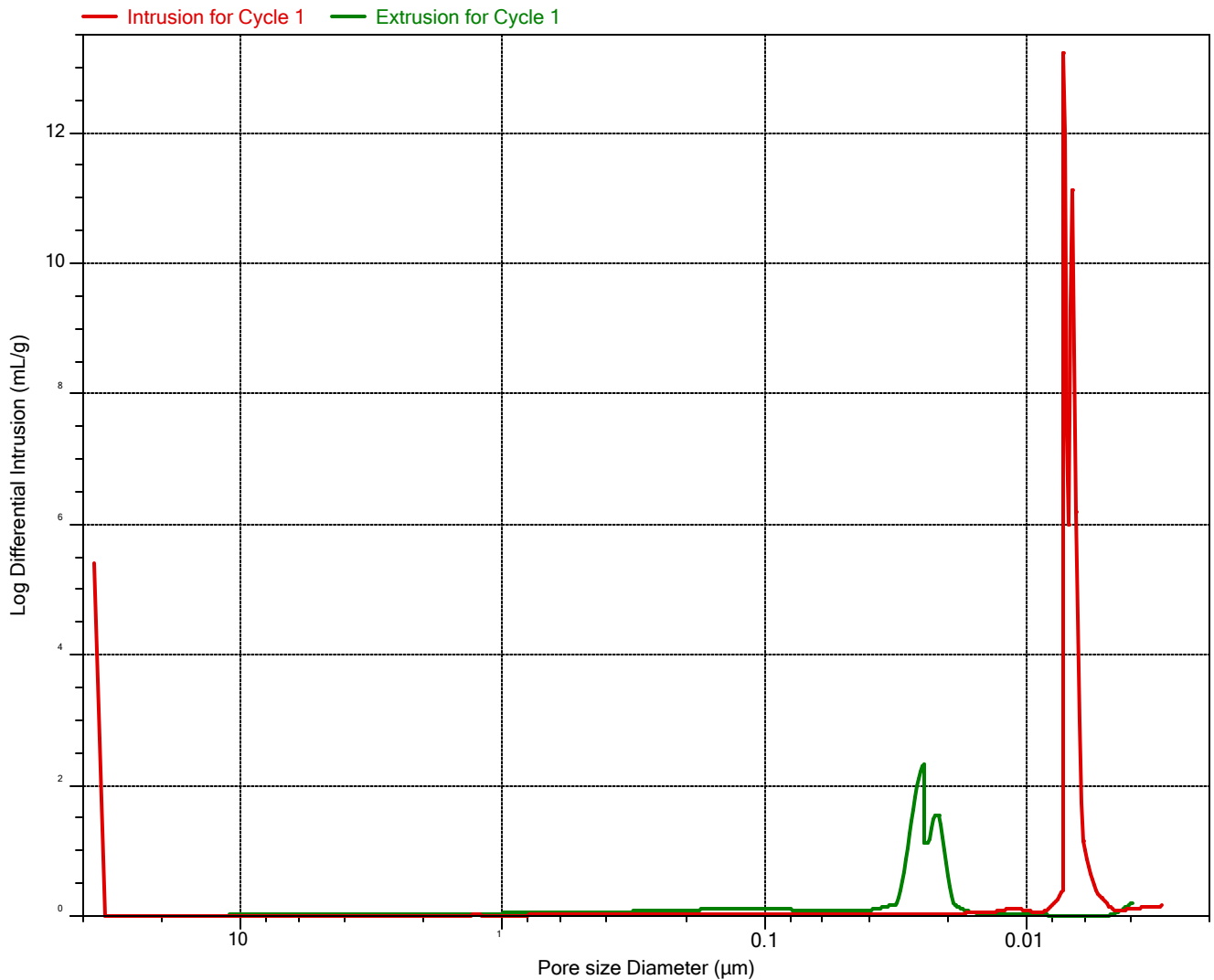
Incremental Intrusion vs Pore size



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Log Differential Intrusion vs Pore size



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Sample Information

Sample Information

Method: Default
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 Submitter: Particle Technology Labs
 Type of data: Automatically collected
 Instrument type: 9600
 Original instrument type: 9600
 Comments:
 Penetrometer mass: 63.5568 g
 Sample mass: 1.0118 g
 Assembly mass: 132.9281 g

Material Properties

Material: silica alumina
 BET surface area: 230.0000 m²/g
 Use user entered density: Yes
 Bulk Density: 0.6555 g/mL
 True Density: 2.9737 g/mL
 Effective Particle Density: 2.9737 g/mL
 Use user entered conductivity formation factor: No
 Use user entered pressure threshold: No
 Linear compressibility: -2.7400e-07 1/psia
 Quadratic compressibility: 2.8500e-13 1/psia²

Penetrometer Properties

Penetrometer: 10-0747 - (10) 5 Bulb, 1.131 Stem, Powder
 Penetrometer mass: 63.5568 g
 Volume: 5.9412 mL
 Constant: 21.846 µL/pF
 Stem volume: 1.1310 mL
 Max. head pressure: 4.450 psia
 Correction method: Blank
 Blank correction sample: R:\Autopore V9620\param\10-0747\10-0747.SMP

Analysis Conditions

Analysis conditions: APV101.01

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Mercury Properties

Advancing contact angle: 130.000 °
 Receding contact angle: 130.000 °
 Surface tension: 485.000 dynes/cm
 Density type: Calculated
 Linear compressibility: -2.7400e-07 1/psia
 Quadratic compressibility: 2.8500e-13 1/psia²

Mercury density vs. temperature:

	Temperature (°C)	Density (g/mL)
1	18.00	13.5512
2	19.00	13.5487
3	20.00	13.5462
4	21.00	13.5438
5	22.00	13.5413
6	22.20	13.5408
7	22.40	13.5403
8	22.60	13.5399
9	22.80	13.5394
10	23.00	13.5389
11	23.20	13.5384
12	23.40	13.5379
13	23.60	13.5374
14	23.80	13.5369
15	24.00	13.5364
16	24.20	13.5359
17	24.40	13.5354
18	24.60	13.5350
19	24.80	13.5345
20	25.00	13.5340
21	25.20	13.5335
22	25.40	13.5330
23	25.60	13.5325
24	25.80	13.5320
25	26.00	13.5315
26	26.20	13.5310
27	26.40	13.5305
28	26.60	13.5301
29	26.80	13.5296
30	27.00	13.5291

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Penetrometer Mass:	63.5568 g		

Mercury density vs. temperature:

Temperature (°C)	Density (g/mL)
31	27.20
32	27.40
33	27.60
34	27.80
35	28.00
36	29.00
37	30.00
38	31.00
39	32.00
40	33.00

Evacuation Options

Sample type: Other
 Initially evacuate at: 5.0 psia/min
 Switch to medium at: Use pressure transducer
 0.50 psia
 Switch to fast at: 900 µmHg
 Evacuation target: 50 µmHg
 Continue evacuating for: 5 min

Low Pressure

Filling pressure: 5.000 psia
 Maximum intrusion volume: 0.050 mL/g
 Equilibration time: 10 s

High Pressure

Equilibration time: 10 s
 Hold at maximum pressure: No

Reverberi Options

Autocalculate Reverberi pressures: No

Pressure Table

Pressure Increment (psia)	Points per Decade	Ending Pressure (psia)	Maximum Intrusion (mL/g)	Pressure Scan Rate (min/decade)	Intrusion Scan Rate (s-mL/g)
1		5.50	0.050	5.0	0.00100
2		6.00	0.050	5.0	0.00100

File name: Sample ID
 Chemistr: Chemist Initials Material Name
 Submitter: Particle Technology Labs
 File: R:\Autopore V9620\data\reportexample2022.SMP

LP Analysis Time:	10/25/2022 11:48:17 AM	Sample Mass:	1.0118 g
HP Analysis Time:	10/25/2022 1:00:52 PM	Stem Volume Used:	49 %
Report Time:	2/14/2023 9:18:39 AM	Show Neg. Int:	No
Report Range:	0.10 to 61,000.00 psia	Correction Type:	Blank
Adv. Contact Angle:	130.000 °	Mercury Temperature:	18.38 °C
Rec. Contact Angle:	130.000 °	Assembly Mass:	132.9281 g
Penetrometer ID:	10-0747 - (10) 5 Bulb, 1.131	Penetrometer Volume:	5.9412 mL
	Stem, Powder		
Penetrometer Mass:	63.5568 g		

Pressure Table

	Pressure Increment (psia)	Points per Decade	Ending Pressure (psia)	Maximum Intrusion (mL/g)	Pressure Scan Rate (min/decade)	Intrusion Scan Rate (s-mL/g)
3			7.50	0.050	5.0	0.00100
4			8.50	0.050	5.0	0.00100
5			10.50	0.050	5.0	0.00100
6			13.00	0.050	5.0	0.00100
7			16.00	0.050	5.0	0.00100
8			20.00	0.050	5.0	0.00100
9			25.00	0.050	5.0	0.00100
* 10			30.00	0.050	5.0	0.00100
11			40.00	0.050	5.0	0.01000
12			50.00	0.050	5.0	0.01000
13			60.00	0.050	5.0	0.01000
14			75.00	0.050	5.0	0.01000
15			90.00	0.050	5.0	0.01000
16			115.00	0.050	5.0	0.01000
17			140.00	0.050	5.0	0.01000
18			175.00	0.050	5.0	0.01000
19			220.00	0.050	5.0	0.01000
20			270.00	0.050	5.0	0.01000
21			330.00	0.050	5.0	0.01000
22			420.00	0.050	5.0	0.01000
23			520.00	0.050	5.0	0.01000
24			640.00	0.050	5.0	0.01000
25			800.00	0.050	5.0	0.01000
26			990.00	0.050	5.0	0.01000
27			1,200.00	0.050	5.0	0.01000
28			1,500.00	0.050	5.0	0.01000
29			1,900.00	0.050	5.0	0.01000
30			2,350.00	0.050	5.0	0.01000
31			2,900.00	0.050	5.0	0.01000
32			3,600.00	0.050	5.0	0.01000
33			4,500.00	0.050	5.0	0.01000
34			5,600.00	0.050	5.0	0.01000
35			6,900.00	0.050	5.0	0.01000
36			8,600.00	0.050	5.0	0.01000
37			10,600.00	0.050	5.0	0.01000
38			13,200.00	0.050	5.0	0.01000
39			14,800.00	0.050	5.0	0.01000

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Adv. Contact Angle:	130.000 °	Mercury Temperature:	18.38 °C
Rec. Contact Angle:	130.000 °	Assembly Mass:	132.9281 g
Penetrometer ID:	10-0747 - (10) 5 Bulb, 1.131	Penetrometer Volume:	5.9412 mL
	Stem, Powder		
Penetrometer Mass:	63.5568 g		

Pressure Table

Pressure Increment (psia)	Points per Decade	Ending Pressure (psia)	Maximum Intrusion (mL/g)	Pressure Scan Rate (min/decade)	Intrusion Scan Rate (s-mL/g)
40		16,400.00	0.050	5.0	0.01000
41		20,000.00	0.050	5.0	0.01000
42		25,000.00	0.050	5.0	0.01000
43		30,000.00	0.050	5.0	0.01000
44		35,000.00	0.050	5.0	0.01000
45		40,000.00	0.050	5.0	0.01000
46		45,000.00	0.050	5.0	0.01000
47		50,000.00	0.050	5.0	0.01000
48		55,000.00	0.050	5.0	0.01000
49		60,000.00	0.050	5.0	0.01000
50		46,100.00	0.050	5.0	0.01000
51		35,500.00	0.050	5.0	0.01000
52		27,300.00	0.050	5.0	0.01000
53		21,000.00	0.050	5.0	0.01000
54		16,000.00	0.050	5.0	0.01000
55		12,400.00	0.050	5.0	0.01000
56		9,600.00	0.050	5.0	0.01000
57		7,300.00	0.050	5.0	0.01000
58		5,700.00	0.050	5.0	0.01000
59		4,300.00	0.050	5.0	0.01000
60		3,300.00	0.050	5.0	0.01000
61		2,600.00	0.050	5.0	0.01000
62		2,000.00	0.050	5.0	0.01000
63		1,500.00	0.050	5.0	0.01000
64		1,200.00	0.050	5.0	0.01000
65		900.00	0.050	5.0	0.01000
66		700.00	0.050	5.0	0.01000
67		500.00	0.050	5.0	0.01000
68		400.00	0.050	5.0	0.01000
69		300.00	0.050	5.0	0.01000
70		240.00	0.050	5.0	0.01000
71		190.00	0.050	5.0	0.01000
72		145.00	0.050	5.0	0.01000
73		110.00	0.050	5.0	0.01000
74		85.00	0.050	5.0	0.01000
75		65.00	0.050	5.0	0.01000
76		50.00	0.050	5.0	0.01000

File name: Sample ID
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Rec. Contact Angle:	130.000 °	Assembly Mass:	132.9281 g
Penetrometer ID:	10-0747 - (10) 5 Bulb, 1.131	Penetrometer Volume:	5.9412 mL
	Stem, Powder		
Penetrometer Mass:	63.5568 g		

Pressure Table

Pressure Increment (psia)	Points per Decade	Ending Pressure (psia)	Maximum Intrusion (mL/g)	Pressure Scan Rate (min/decade)	Intrusion Scan Rate (s-mL/g)
77		30.00	0.050	5.0	0.01000
78		15.00	0.050	5.0	0.01000

File name: Sample ID
 Chemistr: Chemist Initials Material Name
 Submitter: Particle Technology Labs
 File: R:\Autopore V9620\data\reportexample2022.SMP

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	Stem, Powder		
Penetrometer Mass:	63.5568 g		

Sample log

Date	Time	Log Message
10/25/2022	10:40:59 AM	Starting low pressure analysis
10/25/2022	11:48:17 AM	Finished low pressure analysis
10/25/2022	12:08:45 PM	Starting high pressure analysis
10/25/2022	1:00:52 PM	Finished high pressure analysis
10/27/2022	10:19:52 AM	User: AL corrected penetrometer mass