

Sample: 40-Point Isotherm Example
Operator: Chemist
Submitter: Particle Technology Labs
File: R:\3Flex\data\Website examples 2022\Mesopore Isotherm.SMP

Started: 4/25/2018 2:32:05 PM	Analysis adsorptive: N2
Completed: 4/26/2018 6:31:21 AM	Analysis bath temp.: 77.196 K
Report time: 12/21/2022 4:42:35 PM	Thermal correction: No
Sample mass: 0.2702 g	Ambient free space: 15.3307 cm ³ Measured
Analysis free space: 55.1935 cm ³	Equilibration interval: 20 s
Low pressure dose: None	Sample density: 1.000 g/cm ³
Automatic degas: No	

Comments: Material Name Client ID PTL Project# PTL ID

Summary Report

Surface Area

BET Surface Area: 204.8434 m²/g

Pore Volume

Single point adsorption total pore volume of pores
less than 224.1366 nm diameter at $p/p^\circ = 0.991305709$: 0.612926 cm³/g

Pore Size

Adsorption average pore diameter (4V/A by BET): 11.9687 nm

Desorption average pore diameter (4V/A by BET): 11.9666 nm

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 Sample density: 1.000 g/cm³

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Isotherm Tabular Report

Relative Pressure (p/p°)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
			01:14	746.304504
0.002475355	1.850507	27.3283	02:30	747.572266
0.004816192	3.600442	30.2632	02:40	747.570374
0.007363232	5.504285	32.2247	02:49	747.536560
0.010091677	7.544108	33.7434	02:56	747.557434
0.012095324	9.040378	34.6486	03:02	747.427490
0.014850477	11.100822	35.7270	03:08	747.506104
0.017402267	13.006761	36.5749	03:13	747.417603
0.019841574	14.828770	37.2905	03:19	747.358521
0.022376642	16.722227	37.9659	03:24	747.307251
0.024908128	18.613058	38.5856	03:29	747.268433
0.048001422	35.869450	42.7371	03:34	747.258057
0.077280712	57.752701	46.3719	03:39	747.310669
0.098092153	73.305923	48.5138	03:44	747.316895
0.124367468	92.935928	50.9614	03:49	747.268799
0.149684014	111.847862	53.1692	03:54	747.226501
0.174973579	130.730820	55.2896	03:59	747.146057
0.200305064	149.658569	57.3797	04:04	747.153198
0.225630045	168.576767	59.4558	04:09	747.137939
0.250700426	187.286041	61.5297	04:14	747.051147
0.275638088	205.936813	63.6197	04:19	747.127563
0.300636327	224.589355	65.7576	04:25	747.046631
0.325701766	243.338501	67.9676	04:30	747.120605
0.350730112	262.011963	70.2278	04:35	747.047241
0.374128211	279.491699	72.4282	04:41	747.047913
0.399069774	298.110504	74.8646	04:46	747.013489
0.424090426	316.731018	77.4293	04:52	746.847839
0.449032552	335.396210	80.1282	04:57	746.930725
0.473915394	353.982605	82.9955	05:03	746.932068
0.498937654	372.666595	86.0823	05:09	746.920166
0.523814709	391.239777	89.3955	05:16	746.904907
0.548129482	409.383270	92.9297	05:22	746.873291
0.572927700	427.924469	96.9265	05:29	746.908325
0.597793457	446.516174	101.4103	05:35	746.940552
0.622622542	465.077454	106.5293	05:43	746.965332
0.647402886	483.563843	112.4880	05:51	746.928772
0.672032254	501.914246	119.5972	06:00	746.860352
0.696683335	520.344849	128.2899	06:09	746.888611
0.720713414	538.283447	139.1557	06:20	746.875854

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 Low pressure dose: None
 Automatic degas: No

Analysis adsorptive: N2
 Analysis bath temp.: 77.196 K
 Thermal correction: No
 Ambient free space: 15.3307 cm³ Measured
 Equilibration interval: 20 s
 Sample density: 1.000 g/cm³

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Isotherm Tabular Report

Relative Pressure (p/p ^o)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
0.745019479	556.453430	153.6794	06:32	746.897827
0.768905846	574.196350	173.2200	06:44	746.770691
0.794660912	593.278442	202.0060	07:02	746.580627
0.824153175	615.151672	240.7631	07:22	746.404541
0.852486634	636.081726	276.0718	07:42	746.148621
0.873461027	651.687012	301.6889	08:02	746.097412
0.898767130	670.315491	331.6374	08:19	745.816650
0.927361438	691.594849	359.4374	08:37	745.766235
0.947524572	706.550232	374.2877	08:48	745.680115
0.961692524	717.016968	382.7676	08:57	745.578186
0.973136251	725.514771	388.5573	09:05	745.542847
0.983878541	733.548950	393.0358	09:13	745.568604
0.991305709	738.980591	395.6671	09:20	745.461853
0.963772578	718.376221	391.9480	09:26	745.379395
0.938711401	699.676025	388.3659	09:33	745.357971
0.926183293	690.404297	386.2800	09:39	745.429443
0.903043387	673.044067	381.1831	09:47	745.306458
0.880601431	656.294983	373.0323	09:56	745.280396
0.853313806	635.990967	355.5376	10:10	745.318970
0.831210817	619.325317	335.2513	10:22	745.088135
0.801764247	597.366089	302.7750	10:40	745.064514
0.777101143	578.788147	269.3083	10:58	744.804138
0.752891641	560.616699	229.2744	11:18	744.618042
0.727867219	541.931396	186.1044	11:37	744.547058
0.697271798	519.068848	145.5942	11:59	744.428284
0.677315660	504.104706	129.6724	12:12	744.268494
0.655692741	487.988037	118.6486	12:23	744.232788
0.629151036	468.221466	109.5514	12:32	744.211548
0.604677150	450.052338	103.4096	12:40	744.285339
0.577965041	430.228760	97.9938	12:48	744.385437
0.552475683	411.205688	93.5681	12:55	744.296448
0.526521052	391.900024	89.6340	13:02	744.319763
0.501312364	373.143951	86.1927	13:08	744.334229
0.475988716	354.280487	83.0224	13:14	744.304382
0.451094350	335.762817	80.1227	13:20	744.329468
0.425930950	316.978546	77.3688	13:26	744.201721
0.400635718	298.149780	74.7622	13:32	744.191711
0.375992597	279.788727	72.3434	13:38	744.133606
0.350779110	260.999847	69.9692	13:43	744.057556

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Isotherm Tabular Report

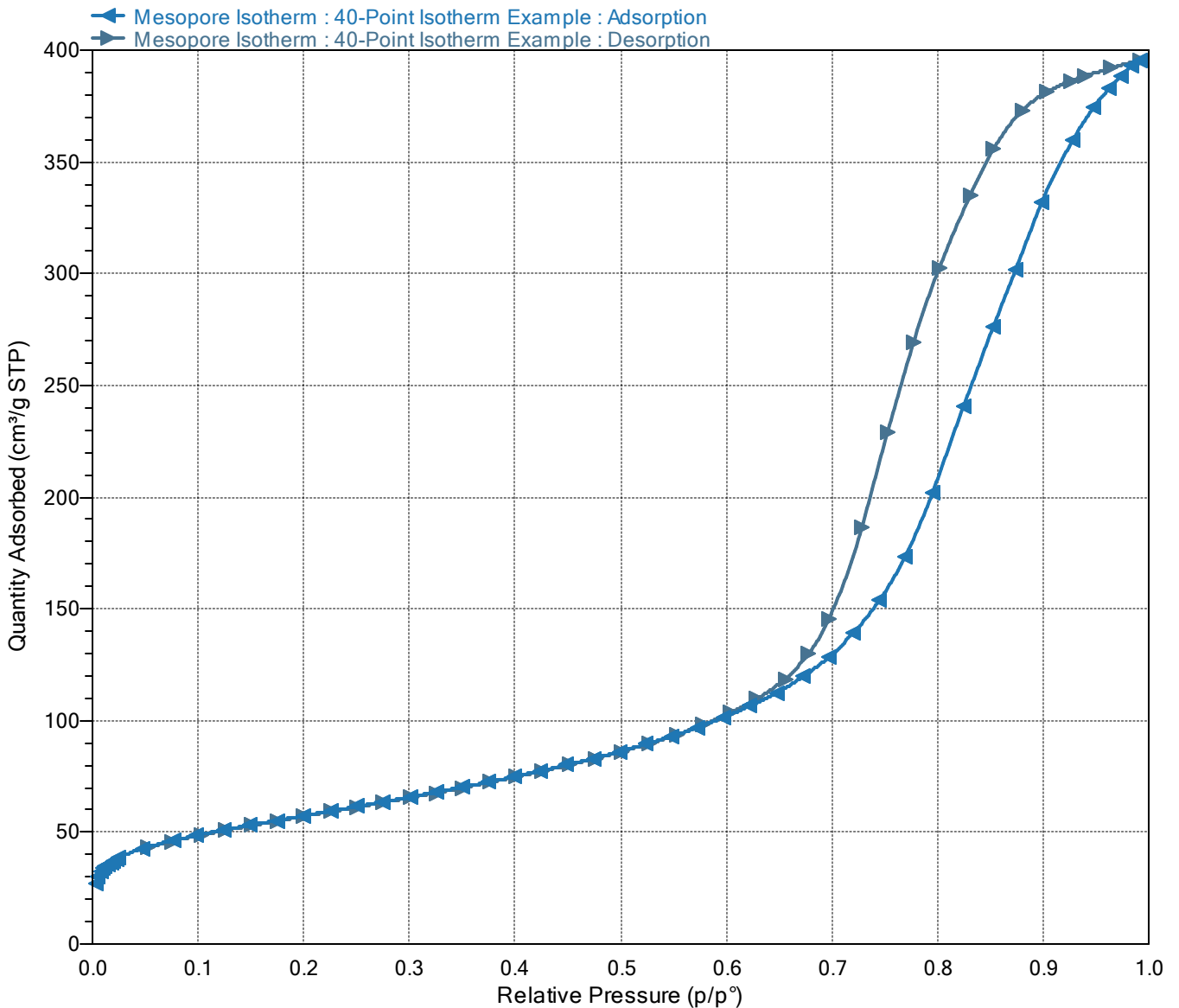
Relative Pressure (p/p ^o)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
0.325587994	242.235321	67.6917	13:49	743.993408
0.300534615	223.580658	65.4961	13:54	743.943115
0.275581045	205.013123	63.3698	13:59	743.930420
0.250437214	186.316528	61.2734	14:05	743.965027
0.225563595	167.825455	59.2221	14:10	744.027222
0.200433085	149.134338	57.1640	14:15	744.060486
0.175435834	130.528458	55.1137	14:20	744.023926
0.150457740	111.953773	53.0275	14:25	744.087830
0.125655433	93.503342	50.8829	14:31	744.124939
0.103279416	76.855247	48.8269	14:35	744.148743
0.075485233	56.169579	45.9950	14:41	744.113464
0.052391498	38.978779	43.1836	14:47	743.990540

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Isotherm Linear Plot



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BET Report

BET surface area: 204.8434 ± 0.6695 m²/g
Slope: 0.021086 ± 0.000068 g/cm³ STP
Y-intercept: 0.000162 ± 0.000013 g/cm³ STP
C: 130.819427
Qm: 47.0625 cm³/g STP
Correlation coefficient: 0.9999529
Molecular cross-sectional area: 0.1620 nm²

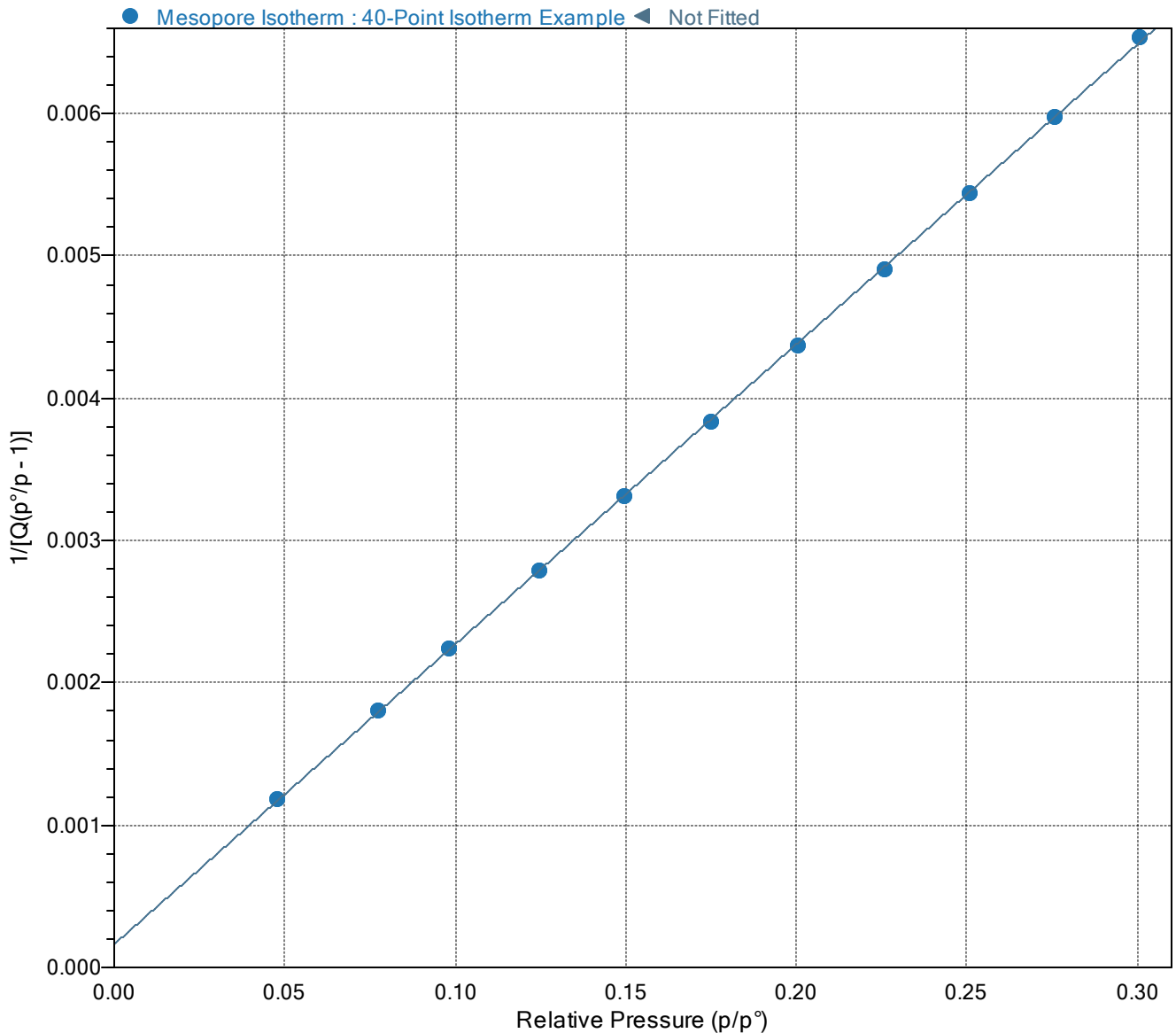
Relative Pressure (p/p°)	Quantity Adsorbed (cm ³ /g STP)	1/[Q(p°/p - 1)]
0.048001422	42.7371	0.001180
0.077280712	46.3719	0.001806
0.098092153	48.5138	0.002242
0.124367468	50.9614	0.002787
0.149684014	53.1692	0.003311
0.174973579	55.2896	0.003836
0.200305064	57.3797	0.004365
0.225630045	59.4558	0.004901
0.250700426	61.5297	0.005438
0.275638088	63.6197	0.005981
0.300636327	65.7576	0.006537

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BET Surface Area Plot



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 Equilibration interval: 20 s
 Sample density: 1.000 g/cm³

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BJH Adsorption Pore Distribution Report

Faas Correction

Halsey

$$t = 3.54 [-5 / \ln(p/p^\circ)]^{0.333}$$

Diameter range: 1.7000 to 300.0000 nm

Adsorbate property factor: 0.95300 nm

Density conversion factor: 0.0015491

Fraction of pores open at both ends: 0.00

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
223.9 - 121.8	144.7	0.004344	0.004344	0.120	0.120
121.8 - 73.8	86.4	0.007538	0.011881	0.349	0.469
73.8 - 52.1	59.2	0.009951	0.021832	0.672	1.141
52.1 - 38.3	43.1	0.014916	0.036748	1.385	2.526
38.3 - 27.9	31.4	0.026895	0.063644	3.423	5.950
27.9 - 20.2	22.7	0.052255	0.115898	9.189	15.139
20.2 - 16.2	17.7	0.058065	0.173963	13.104	28.242
16.2 - 13.9	14.9	0.050706	0.224669	13.630	41.872
13.9 - 11.7	12.6	0.071537	0.296206	22.697	64.569
11.7 - 10.0	10.7	0.080626	0.376832	30.078	94.647
10.0 - 8.9	9.4	0.060298	0.437130	25.693	120.340
8.9 - 8.1	8.4	0.040236	0.477365	19.097	139.438
8.1 - 7.3	7.7	0.028963	0.506328	15.137	154.575
7.3 - 6.7	7.0	0.020774	0.527102	11.869	166.444
6.7 - 6.2	6.4	0.015773	0.542875	9.799	176.243
6.2 - 5.7	5.9	0.012255	0.555130	8.242	184.485
5.7 - 5.3	5.5	0.009670	0.564800	7.010	191.495
5.3 - 5.0	5.1	0.007824	0.572625	6.092	197.587
5.0 - 4.6	4.8	0.006445	0.579069	5.373	202.960
4.6 - 4.4	4.5	0.005426	0.584496	4.829	207.790
4.4 - 4.1	4.2	0.004502	0.588998	4.264	212.054
4.1 - 3.9	4.0	0.003981	0.592979	4.005	216.059
3.9 - 3.6	3.7	0.003505	0.596483	3.742	219.801
3.6 - 3.4	3.5	0.003074	0.599557	3.478	223.280
3.4 - 3.3	3.3	0.002714	0.602271	3.250	226.529
3.3 - 3.1	3.2	0.002423	0.604694	3.068	229.597
3.1 - 2.9	3.0	0.002153	0.606847	2.881	232.478
2.9 - 2.8	2.8	0.001831	0.608677	2.582	235.060
2.8 - 2.6	2.7	0.001714	0.610391	2.549	237.609
2.6 - 2.5	2.5	0.001581	0.611973	2.484	240.093
2.5 - 2.3	2.4	0.001353	0.613326	2.246	242.339

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Automatic degas: No	

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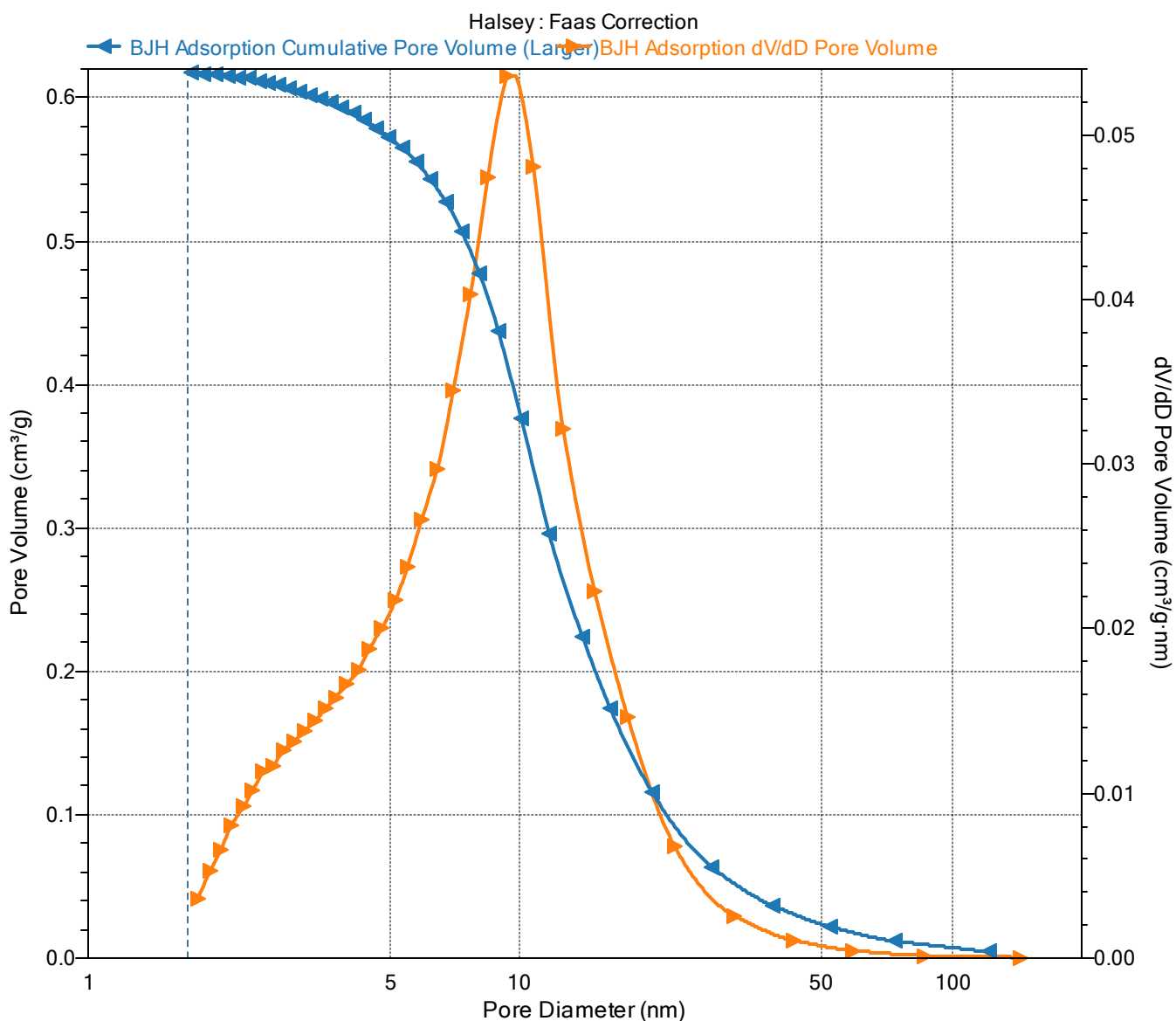
Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
2.3 - 2.2	2.3	0.001169	0.614495	2.050	244.390
2.2 - 2.1	2.2	0.001000	0.615495	1.856	246.246
2.1 - 2.0	2.0	0.000798	0.616293	1.571	247.817
2.0 - 1.9	1.9	0.000632	0.616925	1.322	249.140
1.9 - 1.7	1.8	0.000428	0.617353	0.955	250.095

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BJH Adsorption Cumulative Pore Volume (Larger)



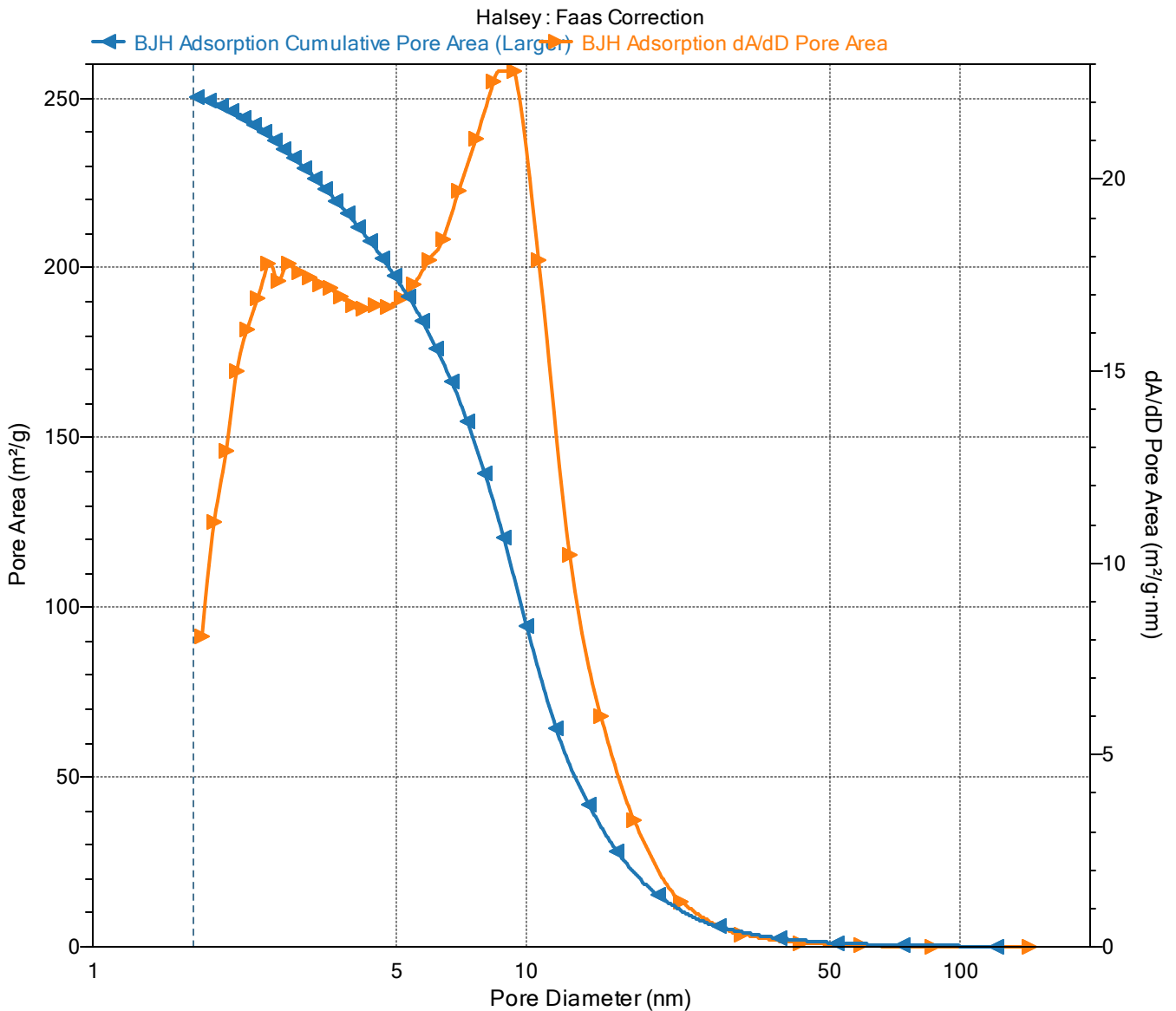
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Analysis adsorptive: N2
 Analysis bath temp.: 77.196 K
 Thermal correction: No
 Ambient free space: 15.3307 cm³ Measured
 Equilibration interval: 20 s
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BJH Adsorption Cumulative Pore Area (Larger)

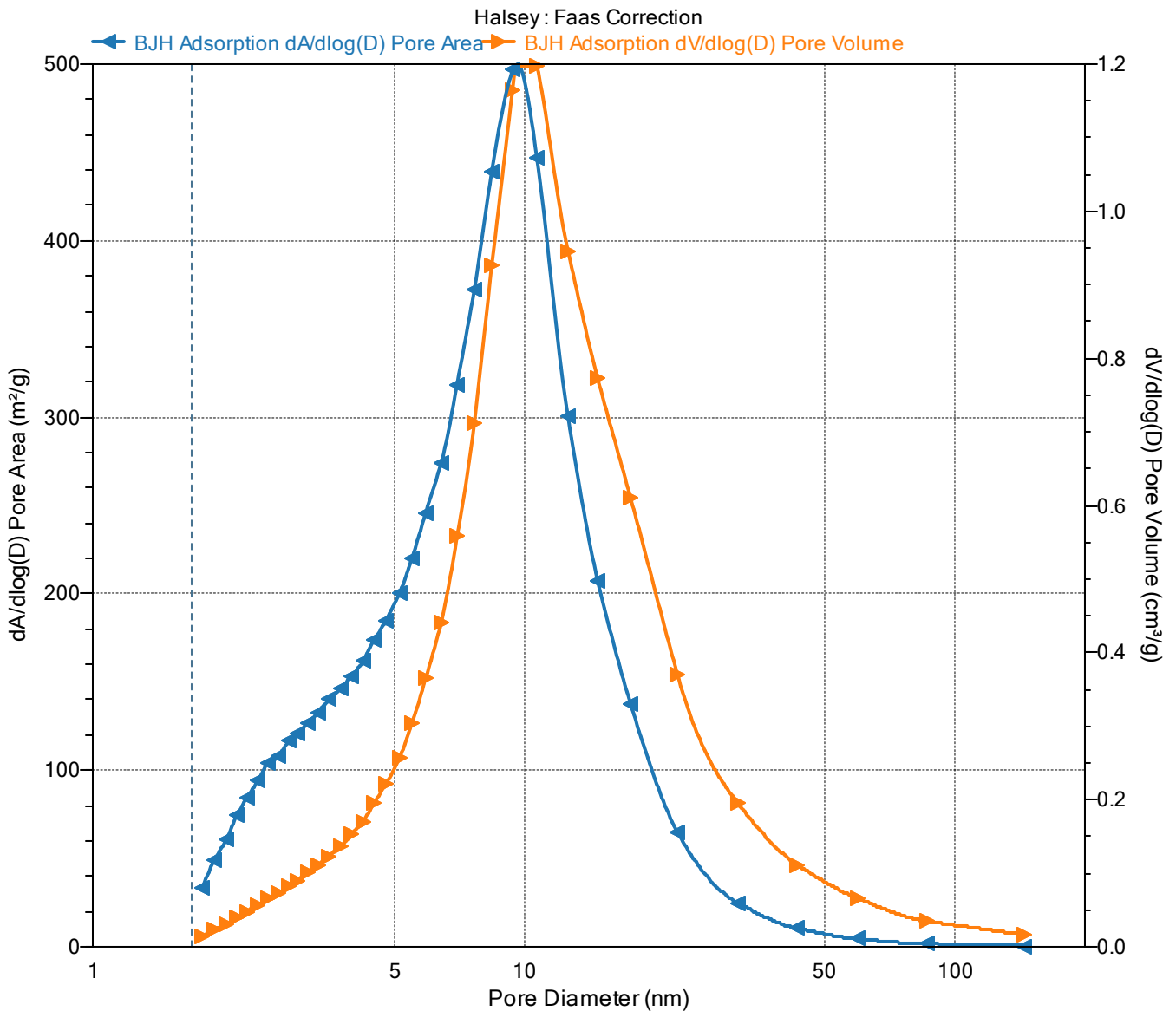


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BJH Adsorption dA/dlog(D) Pore Area



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BJH Desorption Pore Distribution Report

Faas Correction

Harkins and Jura

$$t = [13.99 / (0.034 - \log(p/p^{\circ}))] ^ 0.5$$

Diameter range: 1.7000 to 300.0000 nm

Adsorbate property factor: 0.95300 nm

Density conversion factor: 0.0015491

Fraction of pores open at both ends: 0.00

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
221.9 - 54.8	63.7	0.006368	0.006368	0.400	0.400
54.8 - 32.9	38.5	0.006375	0.012743	0.663	1.063
32.9 - 27.5	29.7	0.003815	0.016558	0.514	1.576
27.5 - 21.1	23.4	0.009644	0.026202	1.646	3.222
21.1 - 17.3	18.8	0.016014	0.042217	3.411	6.633
17.3 - 14.1	15.3	0.035671	0.077887	9.296	15.928
14.1 - 12.3	13.1	0.042478	0.120366	13.005	28.934
12.3 - 10.5	11.2	0.069508	0.189873	24.778	53.712
10.5 - 9.3	9.8	0.073187	0.263060	29.848	83.560
9.3 - 8.4	8.8	0.089326	0.352386	40.697	124.257
8.4 - 7.6	7.9	0.097264	0.449650	49.089	173.346
7.6 - 6.8	7.1	0.089482	0.539133	50.281	223.627
6.8 - 6.3	6.5	0.032103	0.571236	19.681	243.308
6.3 - 5.9	6.1	0.019152	0.590388	12.589	255.897
5.9 - 5.4	5.6	0.012496	0.602885	8.873	264.771
5.4 - 5.0	5.2	0.006088	0.608973	4.667	269.438
5.0 - 4.7	4.8	0.003740	0.612713	3.088	272.526
4.7 - 4.4	4.5	0.002051	0.614764	1.820	274.346
4.4 - 4.1	4.2	0.000968	0.615732	0.920	275.266
4.1 - 3.8	3.9	0.000287	0.616019	0.292	275.557

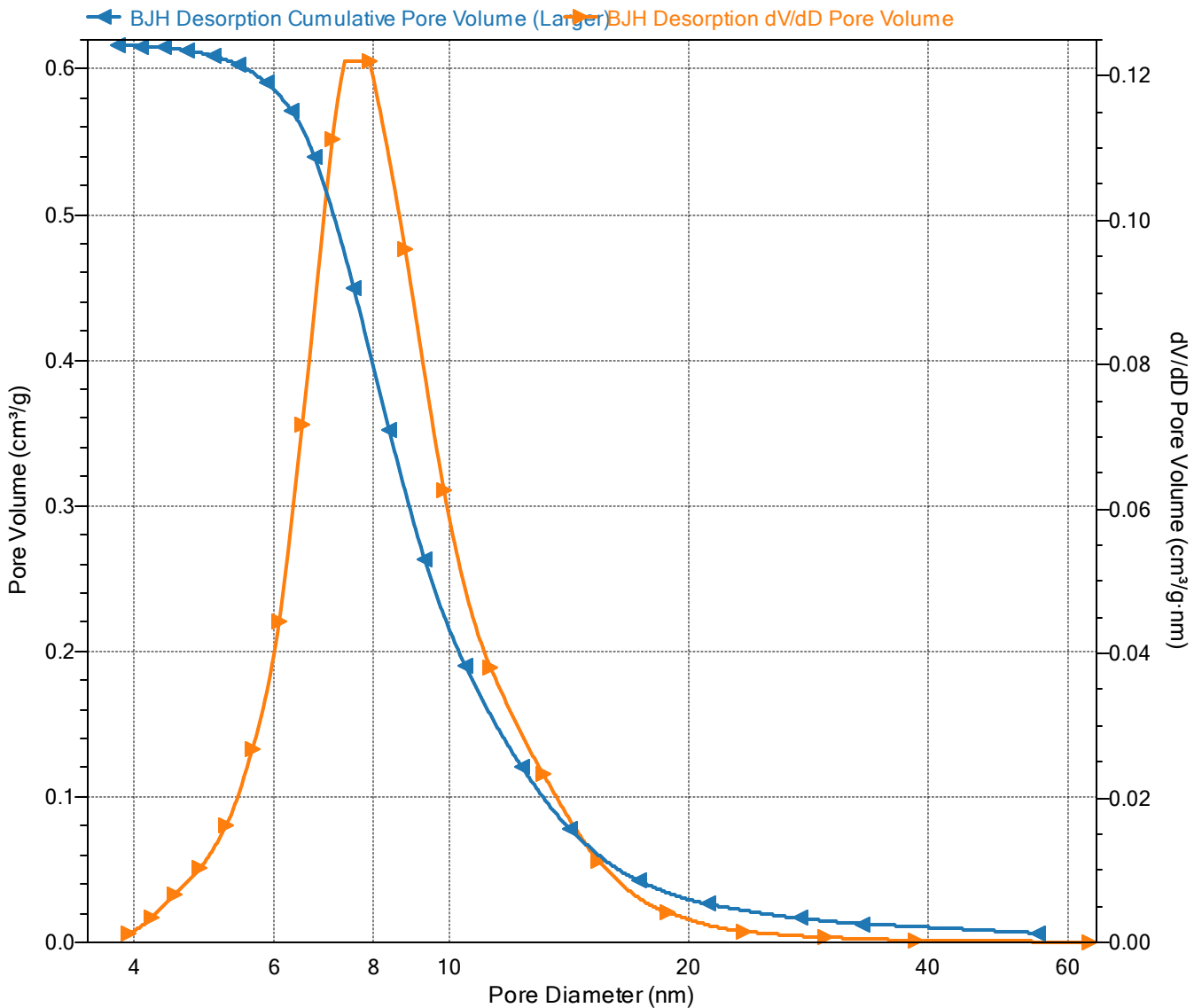
Sample: 40-Point Isotherm Example
 Operator: Chemist
 Submitter: Particle Technology Labs
 File: R:\3Flex\data\Website examples 2022\Mesopore Isotherm.SMP

Started: 4/25/2018 2:32:05 PM	Analysis adsorptive: N2
Completed: 4/26/2018 6:31:21 AM	Analysis bath temp.: 77.196 K
Report time: 12/21/2022 4:42:35 PM	Thermal correction: No
Sample mass: 0.2702 g	Ambient free space: 15.3307 cm ³ Measured
Analysis free space: 55.1935 cm ³	Equilibration interval: 20 s
Low pressure dose: None	Sample density: 1.000 g/cm ³
Automatic degas: No	

Comments: Material Name Client ID PTL Project# PTL ID

BJH Desorption Cumulative Pore Volume (Larger)

Harkins and Jura : Faas Correction



Sample: 40-Point Isotherm Example
 Operator: Chemist
 Submitter: Particle Technology Labs
 File: R:\3Flex\data\Website examples 2022\Mesopore Isotherm.SMP

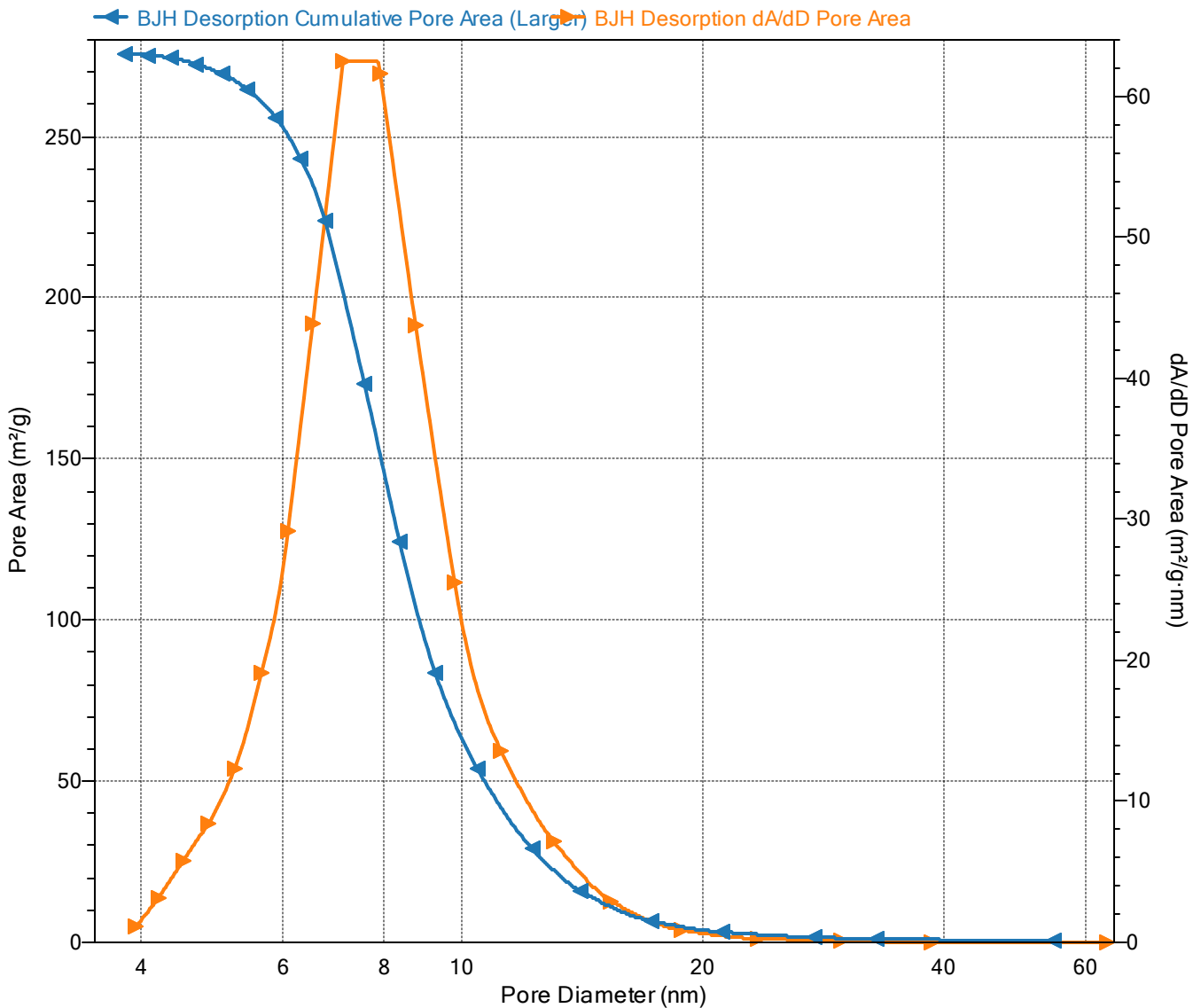
Started: 4/25/2018 2:32:05 PM
 Completed: 4/26/2018 6:31:21 AM
 Report time: 12/21/2022 4:42:35 PM
 Sample mass: 0.2702 g
 Analysis free space: 55.1935 cm³
 Low pressure dose: None
 Automatic degas: No

Analysis adsorptive: N2
 Analysis bath temp.: 77.196 K
 Thermal correction: No
 Ambient free space: 15.3307 cm³ Measured
 Equilibration interval: 20 s
 Sample density: 1.000 g/cm³

Comments: Material Name Client ID PTL Project# PTL ID

BJH Desorption Cumulative Pore Area (Larger)

Harkins and Jura : Faas Correction



Sample: 40-Point Isotherm Example
 Operator: Chemist
 Submitter: Particle Technology Labs
 File: R:\3Flex\data\Website examples 2022\Mesopore Isotherm.SMP

Started: 4/25/2018 2:32:05 PM
 Completed: 4/26/2018 6:31:21 AM
 Report time: 12/21/2022 4:42:35 PM
 Sample mass: 0.2702 g
 Analysis free space: 55.1935 cm³
 Low pressure dose: None
 Automatic degas: No

Analysis adsorptive: N2
 Analysis bath temp.: 77.196 K
 Thermal correction: No
 Ambient free space: 15.3307 cm³ Measured
 Equilibration interval: 20 s
 Sample density: 1.000 g/cm³

Comments: Material Name Client ID PTL Project# PTL ID

BJH Desorption dA/dlog(D) Pore Area

Harkins and Jura : Faas Correction

