



Analysis

Operator: Demo
Sample ID: HA-ALWASH24hrs07062025
Sample Desc:
Sample Weight: 0.2013 g
Approx. Outgas Time: 10.1 hrs
Analysis gas: Nitrogen
Analysis Time: 19:19 hr:min
Analysis Mode: Standard
VoidVol. Mode: He Measure

Date: 2025/07/07

Filename:

Comment:

Instrument: Autosorb iQ Station 3

Final Outgas Temp.: 80 °C

Non-ideality: 6.58e-05 1/Torr

Bath temp.: 77.35 K

Cold Zone V: 1.88183 cc

Report

Operator: Anton Parr

Date: 2025/07/08

Filename: SARM2012_st3_2025_07_07_11_00_00.qps

Extended info: Available

CellType: 9mm

VoidVol Remeasure: off

Warm Zone V: 19.6811 cc

Data Reduction Parameters

Adsorbate model

Thermal Transpiration: on

Nitrogen

Molec. Wt.: 28.013

Eff. mol. diameter (D): 3.54 Å

Temperature 77.350K

Cross Section: 16.200 Å²

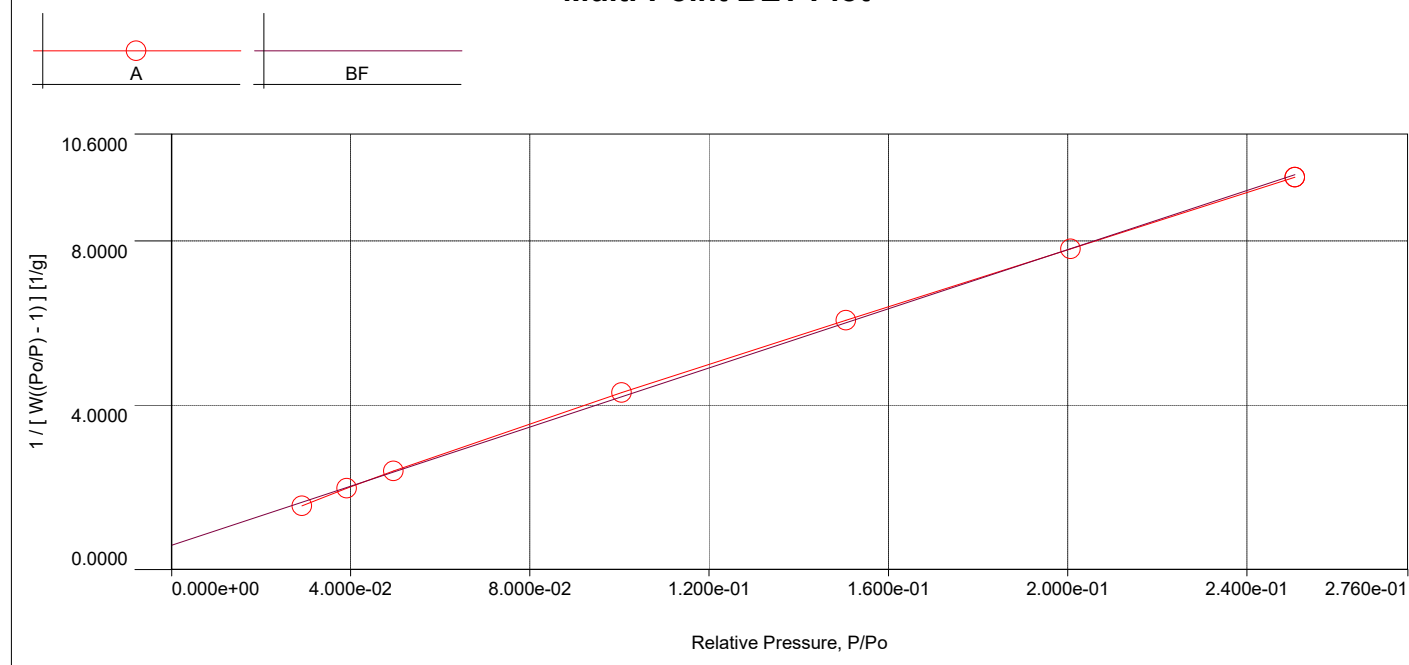
Eff. cell stem diam. (d): 4.0000 mm

Liquid Density: 0.808 g/cc

MBET summary

Slope = 35.988 1/g
Intercept = 5.896e-01 1/g
Correlation coefficient, r = 0.999761
C constant = 62.035
Surface Area = 95.209 m²/g

Multi-Point BET Plot



Multi-Point BET

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((Po/P) - 1)] [1/g]	Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((Po/P) - 1)] [1/g]
2.91348e-02	15.5264	1.5465e+00	1.50535e-01	23.3635	6.0689e+00
3.91610e-02	16.5197	1.9740e+00	2.00639e-01	25.7382	7.8028e+00
4.95520e-02	17.4178	2.3949e+00	2.50692e-01	28.0311	9.5499e+00
1.00456e-01	20.7455	4.3071e+00			



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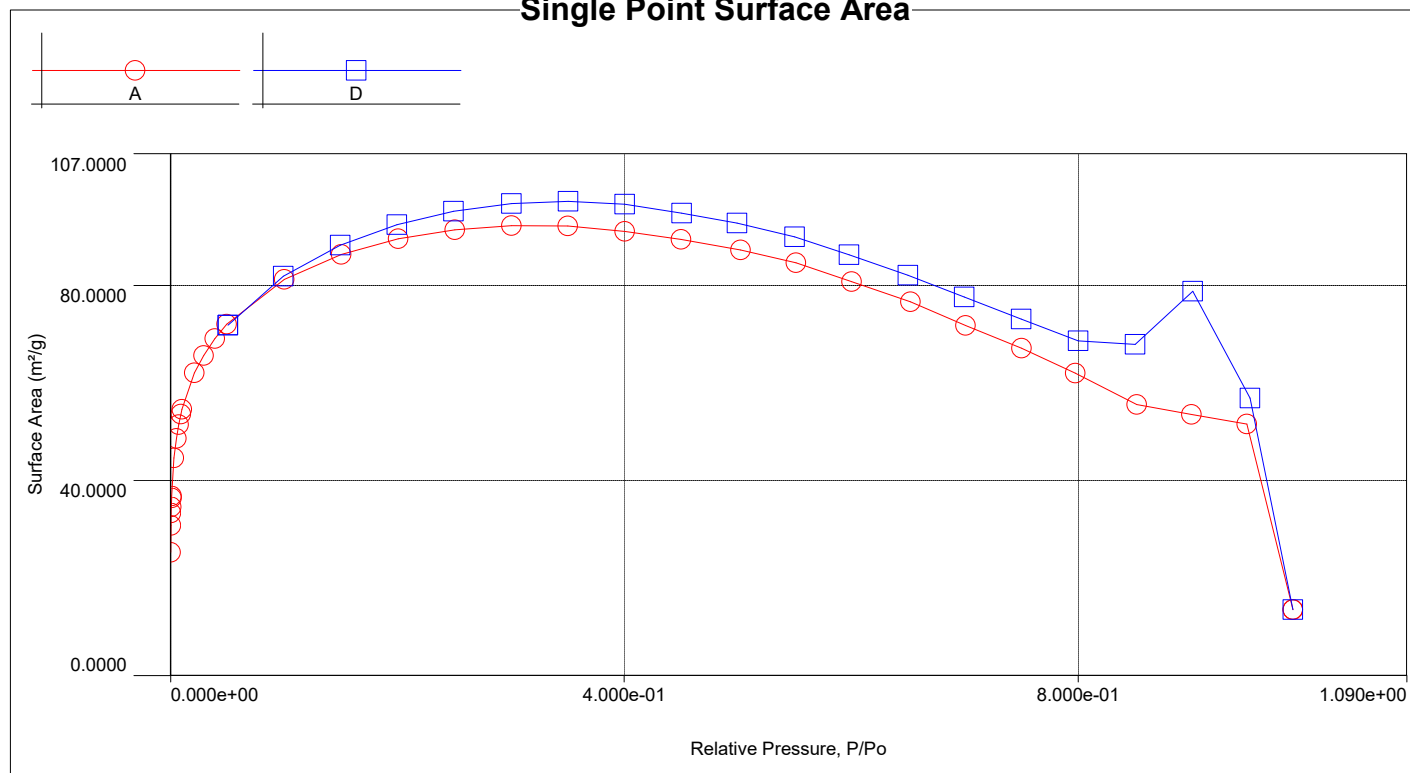
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SARM2012_st3_2025_07_07_11_00_00.qps

Single Point Surface Area



Single Point Surface Area

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((P/Po) - 1)]	Slope	Surf. Area [m²/g]
1.16141e-04	5.7976	1.6030e-02	138.0262	25.2312
3.49326e-04	7.0635	3.9584e-02	113.3147	30.7336
5.68806e-04	7.6600	5.9448e-02	104.5136	33.3217
7.07554e-04	7.9460	7.1298e-02	100.7667	34.5607
9.63278e-04	8.3669	9.2207e-02	95.7218	36.3822
1.02380e-03	8.4563	9.6970e-02	94.7158	36.7686
3.15546e-03	10.2815	2.4634e-01	78.0678	44.6095
5.18455e-03	11.2249	3.7149e-01	71.6526	48.6035
7.13099e-03	11.8980	4.8299e-01	67.7313	51.4174
9.07591e-03	12.4254	5.8979e-01	64.9839	53.5913
1.01372e-02	12.6762	6.4642e-01	63.7665	54.6144
2.12052e-02	14.5713	1.1896e+00	56.1005	62.0773
2.91348e-02	15.5264	1.5465e+00	53.0793	65.6106
3.91610e-02	16.5197	1.9740e+00	50.4086	69.0868
4.95520e-02	17.4178	2.3949e+00	48.3319	72.0552
1.00456e-01	20.7455	4.3071e+00	42.8756	81.2250
1.50535e-01	23.3635	6.0689e+00	40.3155	86.3827
2.00639e-01	25.7382	7.8028e+00	38.8897	89.5498
2.50692e-01	28.0311	9.5499e+00	38.0940	91.4204
3.00623e-01	30.3074	1.1348e+01	37.7482	92.2579
3.50212e-01	32.6068	1.3225e+01	37.7639	92.2195
4.00421e-01	34.9101	1.5306e+01	38.2260	91.1048
4.50176e-01	37.3669	1.7532e+01	38.9445	89.4239
5.02387e-01	40.3064	2.0041e+01	39.8924	87.2990
5.51333e-01	43.3647	2.2673e+01	41.1241	84.6842
6.00425e-01	46.4476	2.5885e+01	43.1117	80.7801

Continued on next page



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Single Point Surface Area continued

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((P/Po) - 1)]	Slope	Surf. Area [m²/g]
6.52240e-01	50.6402	2.9634e+01	45.4341	76.6510
7.00934e-01	55.1638	3.3995e+01	48.4993	71.8066
7.50287e-01	61.7870	3.8909e+01	51.8584	67.1553
7.97717e-01	70.4438	4.4792e+01	56.1505	62.0219
8.51716e-01	86.1332	5.3356e+01	62.6458	55.5914
8.99998e-01	123.0507	5.8520e+01	65.0227	53.5593
9.48761e-01	231.0902	6.4111e+01	67.5737	51.5373
9.89317e-01	290.4909	2.5507e+02	257.8244	13.5075
9.51753e-01	270.9921	5.8245e+01	61.1974	56.9071
9.01158e-01	183.1766	3.9824e+01	44.1920	78.8054
8.50282e-01	104.2480	4.3589e+01	51.2642	67.9337
8.00180e-01	78.9330	4.0593e+01	50.7294	68.6498
7.49903e-01	67.1354	3.5736e+01	47.6536	73.0809
6.99870e-01	59.4453	3.1387e+01	44.8466	77.6550
6.50177e-01	53.9087	2.7585e+01	42.4277	82.0824
5.98242e-01	49.3663	2.4135e+01	40.3424	86.3252
5.50198e-01	45.9575	2.1296e+01	38.7060	89.9748
4.99397e-01	42.6004	1.8737e+01	37.5188	92.8219
4.50811e-01	39.6848	1.6550e+01	36.7122	94.8613
4.00391e-01	37.0263	1.4430e+01	36.0395	96.6320
3.50527e-01	34.4033	1.2552e+01	35.8092	97.2534
3.00651e-01	31.7987	1.0817e+01	35.9794	96.7933
2.49448e-01	29.1482	9.1231e+00	36.5733	95.2215
1.99581e-01	26.5391	7.5175e+00	37.6663	92.4584
1.49699e-01	23.8460	5.9072e+00	39.4609	88.2536
9.95072e-02	20.8969	4.2311e+00	42.5202	81.9039
5.07335e-02	17.3921	2.4587e+00	48.4638	71.8592