



Full Report Set

ASAP 2020 V3.00 H

Unit 1

Serial #: 531

Page 1

Sample: SATHEESH / Silver Tungstate
Operator: A Narayanan
Submitter: Dr.Suganthi,Chy,Thiagarajar College,MDU
File: C:\2020\DATA\2015\EXT-179.SMP

Started: 5/31/2015 8:59:33AM	Analysis Adsorptive: N2
Completed: 5/31/2015 3:34:10PM	Analysis Bath Temp.: -195.678 °C
Report Time: 5/31/2015 4:12:52PM	Thermal Correction: No
Sample Mass: 1.5328 g	Warm Free Space: 15.5497 cm ³ Measured
Cold Free Space: 47.0868 cm ³	Equilibration Interval: 5 s
Low Pressure Dose: None	Automatic Degas: Yes

Comments: Sample outgassed at 200 C 12 hrs

Summary Report

Surface Area

BET Surface Area: 0.9834 m²/g

Pore Volume

Single point adsorption total pore volume of pores
less than 1400.226 Å radius at P/Po = 0.993060845: 0.003760 cm³/g

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Isotherm Tabular Report

Relative Pressure (P/Po)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Saturation Pressure (mmHg)
			771.62628
0.010381843	8.00445	0.1308	
0.023599865	18.19496	0.1582	
0.035325709	27.23435	0.1746	
0.047006437	36.23896	0.1873	
0.058540251	45.12917	0.1973	
0.061242413	47.21060	0.1997	
0.071347072	54.99812	0.1982	
0.080778446	62.26609	0.2101	
0.101118812	77.94357	0.2221	
0.120728272	93.05544	0.2330	
0.141144228	108.78784	0.2420	
0.161073669	124.14414	0.2506	
0.180800018	139.34282	0.2581	
0.200812907	154.76401	0.2654	
0.251740022	194.00595	0.2805	
0.301680374	232.48465	0.2943	
0.351605769	270.94907	0.3075	
0.401379537	309.29388	0.3203	
0.451461393	347.87335	0.3339	
0.501529492	386.43945	0.3472	
0.551848846	425.19638	0.3621	
0.601839574	463.68903	0.3790	
0.651622018	502.02606	0.3986	
0.702141659	540.92828	0.4223	
0.741536981	571.25787	0.4459	
0.771686189	594.47327	0.4651	
0.802223037	617.96429	0.4924	
0.822230183	633.35339	0.5155	
0.841974181	648.53870	0.5417	
0.862197111	664.09180	0.5720	
0.876862901	675.36365	0.5997	
0.892280050	687.20105	0.6337	
0.907071061	698.58002	0.6737	
0.917160701	706.31256	0.7100	
0.927258423	714.06329	0.7521	
0.935587604	720.45160	0.7983	
0.942547386	725.78497	0.8439	
0.949678312	731.23663	0.8980	
0.955454359	735.65771	0.9547	
			769.92828
0.961620848	740.37909	1.0319	

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Isotherm Tabular Report

Relative Pressure (P/Po)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Saturation Pressure (mmHg)
0.964495555	742.59241	1.0844	
0.968576888	745.73474	1.1524	
0.970938138	747.55273	1.2139	
0.974693181	750.44385	1.2996	
0.977015269	752.23169	1.3807	
0.980796313	755.14282	1.5051	
0.981634634	755.78827	1.5633	
0.985025096	758.39868	1.7155	
0.993060845	764.58563	2.4305	
0.950421281	731.75623	1.0813	
0.889312185	684.70660	0.7315	
0.840744682	647.31311	0.6299	
0.796114949	612.95142	0.5796	
0.751491874	578.59485	0.5462	
0.725736840	558.76532	0.5303	
0.681166007	524.44897	0.5098	
0.636775601	490.27155	0.4931	
0.593453330	456.91650	0.4774	
0.549080364	422.75250	0.4637	
0.504833523	388.68561	0.4511	
0.460571937	354.60736	0.4384	
0.416524152	320.69373	0.4262	
0.372411997	286.73053	0.4148	
0.328241179	252.72217	0.4024	
0.283612238	218.36108	0.3890	
0.239487201	184.38797	0.3752	
0.195268621	150.34283	0.3599	
0.150761336	116.07542	0.3402	
0.106713363	82.16164	0.3217	
0.062479632	48.10484	0.2917	

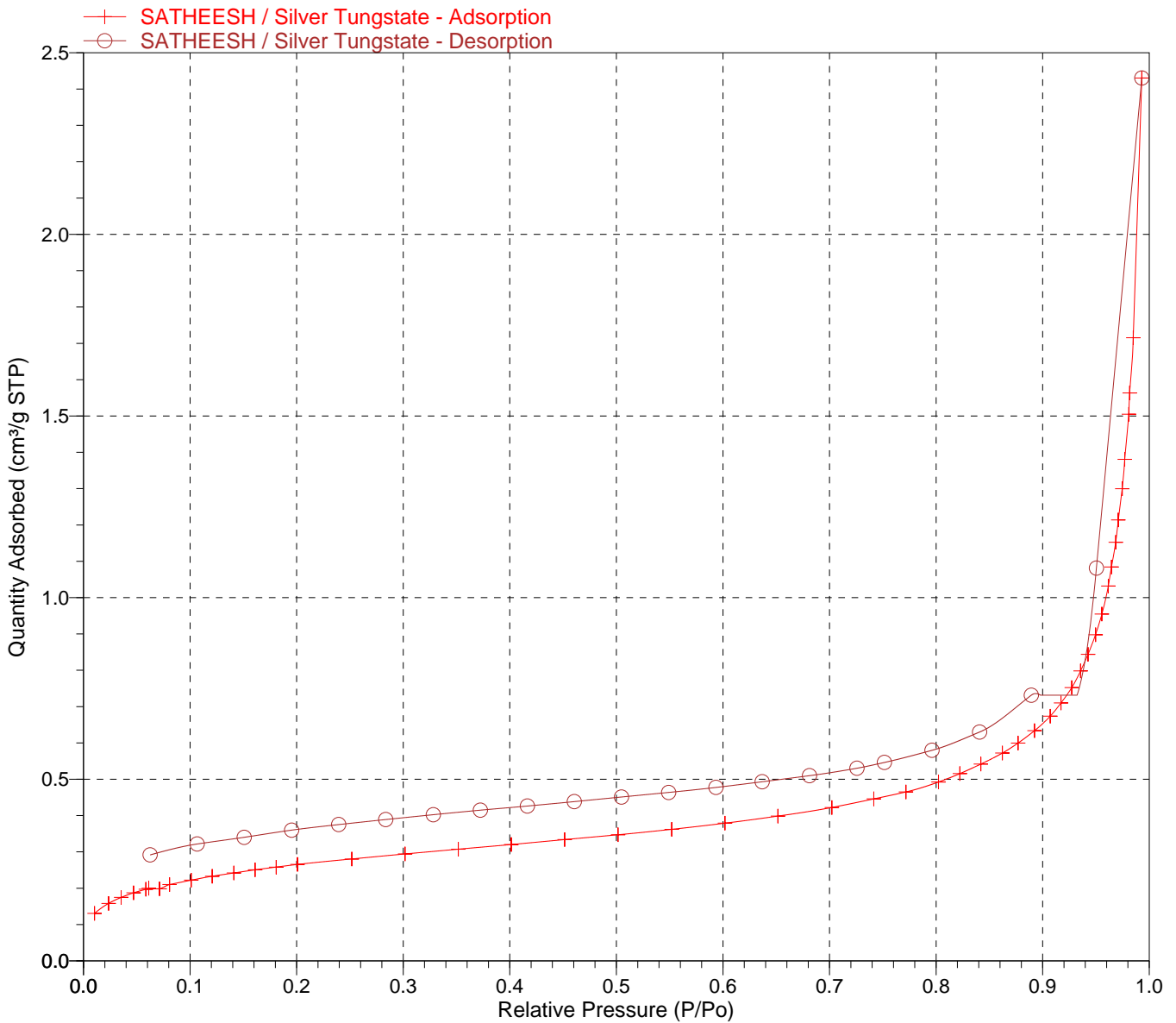
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Isotherm Linear Plot



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BET Surface Area Report

BET Surface Area: 0.9834 ± 0.0094 m²/g
 Slope: 4.362134 ± 0.042059 g/cm³ STP
 Y-Intercept: 0.064772 ± 0.004900 g/cm³ STP
 C: 68.346156
 Qm: 0.2259 cm³/g STP
 Correlation Coefficient: 0.9996748
 Molecular Cross-Sectional Area: 0.1620 nm²

Relative Pressure (P/Po)	Quantity Adsorbed (cm ³ /g STP)	1/[Q(Po/P - 1)]
0.058540251	0.1973	0.315133
0.061242413	0.1997	0.326685
0.071347072	0.1982	0.387644
0.080778446	0.2101	0.418336
0.101118812	0.2221	0.506444
0.120728272	0.2330	0.589282
0.141144228	0.2420	0.679172
0.161073669	0.2506	0.766122
0.180800018	0.2581	0.854942

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BET Surface Area Plot

