

Sample: Ni
Operator: W.S
Submitter: s/n 212
File: C:\MicroActive for ASAP 2460\data\UES\Ni.SMP

Started: 2016/11/24 14:25:09	Analysis Adsorptive: N2
Completed: 2016/11/24 20:22:33	Analysis Bath Temp.: -195.800 °C
Report Time: 2016/11/25 7:40:29	Thermal Correction: No
Sample Mass: 0.1092 g	Warm Free Space: 17.6827 cm ³ Measured
Cold Free Space: 50.2581 cm ³	Equilibration Interval: 10 s
Low Pressure Dose: 20.0000 cm ³ /g STP	Sample Density: 1.000 g/cm ³
Automatic Degas: No	

Summary Report

Surface Area

BET Surface Area: 690.3956 m²/g
Langmuir Surface Area: 791.2288 m²/g
t-Plot Micropore Area: 615.8638 m²/g

Pore Volume

t-Plot micropore volume: 0.234786 cm³/g
BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.033981 cm³/g
BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.032375 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 3.5325 nm
BJH Desorption average pore diameter (4V/A): 3.2926 nm

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BJH Adsorption Pore Distribution Report

Faas Correction

Harkins and Jura

$$t = [13.99 / (0.034 - \log(P/P_0))] ^{0.5}$$

Diameter Range: 1.7000 nm to 300.0000 nm

Adsorbate Property Factor: 0.95300 nm

Density Conversion Factor: 0.0015468

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)
352.0 - 182.7	218.1	0.001688	0.001688	0.031	0.031
182.7 - 96.3	114.7	0.001741	0.003429	0.061	0.092
96.3 - 66.0	75.5	0.001116	0.004545	0.059	0.151
66.0 - 49.9	55.7	0.000909	0.005454	0.065	0.216
49.9 - 40.0	43.8	0.000865	0.006319	0.079	0.295
40.0 - 27.2	31.1	0.001452	0.007771	0.186	0.482
27.2 - 20.7	23.0	0.001135	0.008906	0.197	0.679
20.7 - 16.7	18.3	0.000907	0.009813	0.199	0.878
16.7 - 14.0	15.1	0.000725	0.010538	0.192	1.069
14.0 - 12.1	12.9	0.000602	0.011141	0.187	1.256
12.1 - 10.6	11.2	0.000489	0.011629	0.174	1.430
10.6 - 9.4	9.9	0.000409	0.012039	0.165	1.595
9.4 - 8.5	8.9	0.000369	0.012408	0.166	1.760
8.5 - 7.7	8.1	0.000313	0.012720	0.155	1.915
7.7 - 7.1	7.4	0.000280	0.013001	0.152	2.068
7.1 - 6.5	6.8	0.000262	0.013262	0.155	2.222
6.5 - 6.0	6.2	0.000260	0.013523	0.167	2.389
6.0 - 5.6	5.8	0.000166	0.013689	0.115	2.504
5.6 - 5.2	5.4	0.000231	0.013920	0.172	2.676
5.2 - 4.9	5.0	0.000235	0.014155	0.187	2.863
4.9 - 4.6	4.7	0.000277	0.014432	0.235	3.099
4.6 - 4.3	4.4	0.000296	0.014728	0.268	3.366
4.3 - 4.0	4.2	0.000339	0.015067	0.326	3.692
4.0 - 3.8	3.9	0.000335	0.015402	0.342	4.034
3.8 - 3.6	3.7	0.000384	0.015786	0.415	4.450
3.6 - 3.4	3.5	0.000438	0.016224	0.501	4.951
3.4 - 3.2	3.3	0.000533	0.016757	0.646	5.597
3.2 - 3.0	3.1	0.000543	0.017299	0.694	6.291
3.0 - 2.9	3.0	0.000677	0.017976	0.915	7.205
2.9 - 2.7	2.8	0.000779	0.018755	1.111	8.317
2.7 - 2.6	2.7	0.000936	0.019690	1.410	9.726
2.6 - 2.4	2.5	0.001037	0.020727	1.650	11.376
2.4 - 2.3	2.4	0.001206	0.021933	2.029	13.405
2.3 - 2.2	2.2	0.001461	0.023394	2.601	16.006
2.2 - 2.1	2.1	0.001746	0.025140	3.293	19.299
2.1 - 1.9	2.0	0.002150	0.027290	4.305	23.604

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1.9 - 1.8	1.9	0.002844	0.030134	6.069	29.673
1.8 - 1.7	1.7	0.003847	0.033981	8.805	38.478