

Supplemental materials:

Pore distribution reports:

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	Serial # 165 Unit 1 Port 3	
Sample:	Co3O4	
Started:	2015/06/09 11:26:22	Analysis Adsorptive: N2
		Analysis Bath
Completed:	2015/06/10 4:23:15	Temp.: -196.071 °C
Report Time:	2015/06/10 14:34:19	Thermal Correction: No
Sample Mass:	0.0714 g	Warm Free Space: 16.9309 cm ³ Measured
		Equilibration
Cold Free Space:	60.4945 cm ³	Interval: 10 s
Low Pressure		
Dose:	10.0000 cm ³ /g STP	Sample Density: 1.000 g/cm ³
Automatic Degas:	No	

BJH Adsorption Pore Distribution Report

Faas Correction

Harkins and Jura

$$t = [13.99 / (0.034 - \log(p/p^0))] ^{0.5}$$

Diameter Range:	1.5484 nm to 300.0000 nm
Adsorbate Property Factor:	0.95300 nm
Density Conversion Factor:	0.0015475
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)
6.0 - 5.8	5.9	0.000112	0.123413	0.076022	12.05466
5.8 - 5.7	5.75	5.93E-05	0.123501	0.041277	12.11154
5.7 - 5.5	5.6	5.52E-05	0.123523	0.038571	12.1268
5.5 - 5.3	5.4	8.17E-05	0.12356	0.061824	12.15563
5.3 - 5.2	5.25	0.00011	0.123599	0.084535	12.1857
5.2 - 5.0	5.1	0.000118	0.123618	0.092932	12.20074
5.0 - 4.5	4.75	1.57E-05	0.123654	0.013141	12.23038
4.5 - 4.0	4.25	2.61E-05	0.12372	0.024528	12.28888
4.0 - 3.5	3.75	9.04E-05	0.123951	0.096442	12.50935
3.5 - 3.1	3.3	7.11E-05	0.124496	0.086418	13.09126
3.1 - 2.7	2.9	8.82E-05	0.124743	0.121488	13.3895
2.7 - 2.4	2.55	5.52E-05	0.124997	0.086772	13.74419
2.4 - 2.1	2.25	8.08E-05	0.125108	0.143977	13.92376