



TriStar II 3020 V1.03 (V1.03)

Unit 1 Port 3

Serial #: 387

Page 1

Sample: M-16 06
Operator: TC/AT
Submitter: Carolina Stalite Company
File: C:\...\08AUG\10-3991.SMP

Started: 8/4/2010 12:01:14PM
Completed: 8/4/2010 1:49:04PM
Report Time: 8/4/2010 2:56:27PM
Warm Free Space: 6.1298 cm³ Measured
Equilibration Interval: 10 s
Sample Density: 1.000 g/cm³

Analysis Adsorptive: N2
Analysis Bath Temp.: 77.350 K
Sample Mass: 6.1944 g
Cold Free Space: 16.3774 cm³ Measured
Low Pressure Dose: None
Automatic Degas: Yes

Sample Prep: Stage
1

Temperature (°C)
130

Ramp Rate (°C/min)
10

Time (min)
960

Summary Report

Surface Area

Single point surface area at $P/P_0 = 0.251748149$: 0.2420 m²/g

BET Surface Area: 0.2508 m²/g

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Sample Prep: Stage	Temperature (°C)	Ramp Rate (°C/min)	Time (min)
1	130	10	960

Isotherm Tabular Report

Relative Pressure (P/Po)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
			01:20	740.664368
0.047883089	35.471458	0.0499	01:25	740.793030
0.086220700	63.867336	0.0560	01:27	740.742493
0.100678385	74.567940	0.0580	01:29	740.654907
0.126337975	93.576820	0.0612	01:32	740.686401
0.151482222	112.183533	0.0640	01:34	740.572266
0.176585854	130.752060	0.0667	01:36	740.444702
0.201573686	149.280090	0.0693	01:38	740.573303
0.226717979	167.876236	0.0718	01:40	740.462830
0.251748149	186.413696	0.0743	01:42	740.476929
0.276789210	204.940735	0.0769	01:44	740.421692
0.301882942	223.463486	0.0794	01:46	740.232239

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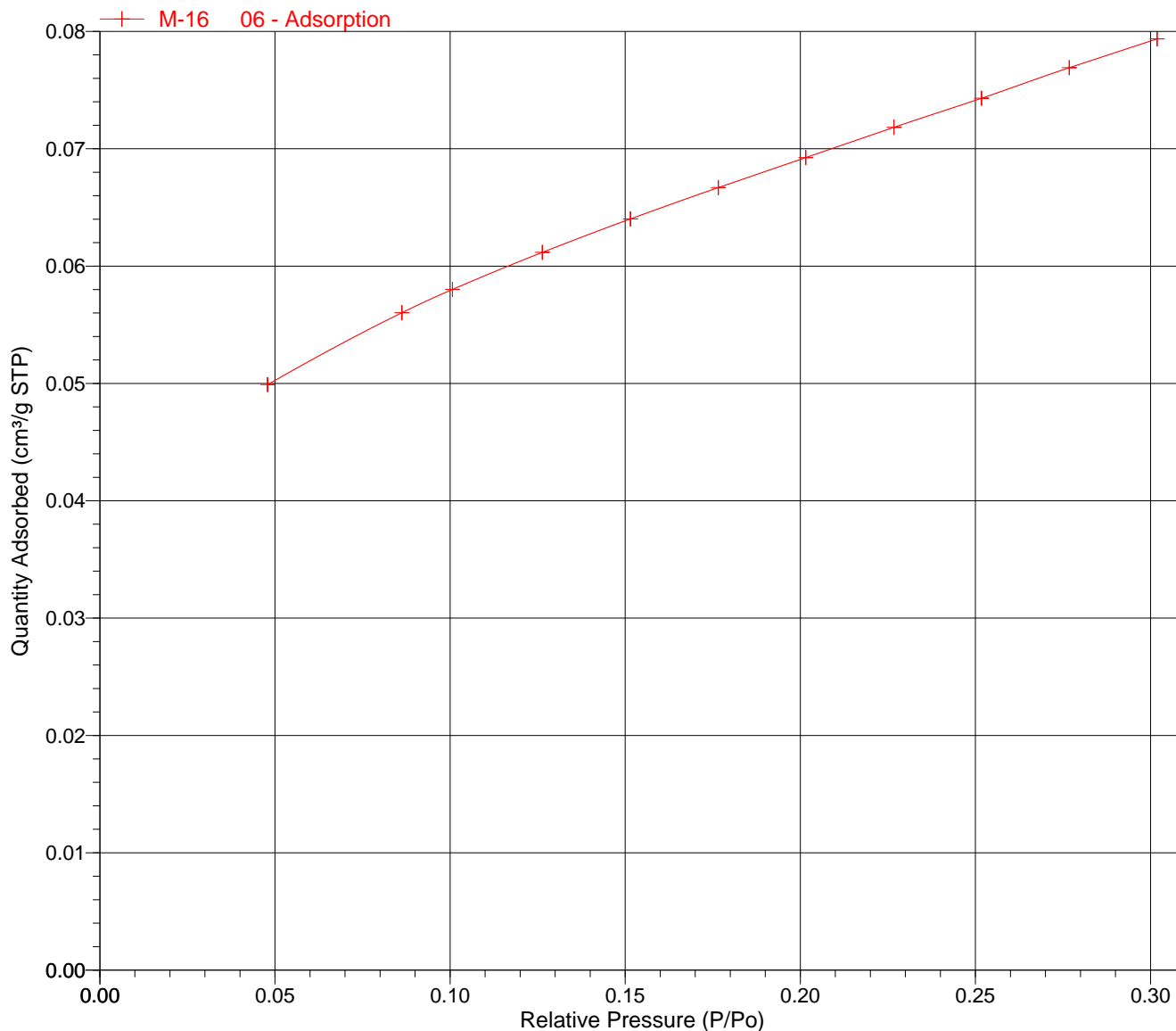
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Time (min)
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Isotherm Linear Plot



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Sample Prep: Stage	Temperature (°C)	Ramp Rate (°C/min)	Time (min)
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BET Surface Area Report

BET Surface Area: 0.2508 ± 0.0007 m²/g
 Slope: 17.167282 ± 0.047710 g/cm³ STP
 Y-Intercept: 0.193298 ± 0.007878 g/cm³ STP
 C: 89.812321
 Qm: 0.0576 cm³/g STP
 Correlation Coefficient: 0.9999730
 Molecular Cross-Sectional Area: 0.1620 nm²

Relative Pressure (P/Po)	Quantity Adsorbed (cm ³ /g STP)	1/[Q(Po/P - 1)]
0.047883089	0.0499	1.007965
0.086220700	0.0560	1.684120
0.100678385	0.0580	1.929744
0.126337975	0.0612	2.364011
0.151482222	0.0640	2.788530
0.176585854	0.0667	3.215687
0.201573686	0.0693	3.645656
0.226717979	0.0718	4.081918
0.251748149	0.0743	4.527979

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BET Surface Area Plot

