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Lakewood, Colorado

Brunner – Emmett – Teller (B.E.T.) Surface Area Analysis

Porous Materials, Inc. Analytical Services Division
 Cornell Industry Research Park, Bldg. 4, Ithaca, NY 14850 USA
 Phone (607) 257-4267 or 257-5544

Note: Results calculated using weight after outgassing. To get results using original weight, multiply these values by Wt. after outgas/Wt. before outgas.

SAMPLE: ISOLITE CG-2

Specific Surface Area = 4.66369 M²/GM

Sample Weight = 1.2445 GM Before Outgassing 1.233 GM After Outgassing

Sample Density = 2

BET C Value = 17.266

Slope = 707.198 GM-1

Y Intercept = 43.476 GM-1

Correlation Coefficient = .993

Adsorbate = Nitrogen

VA Volume = 41.8049 CC

Vit Volume = 13.68488 CC

Vin Volume = 13.073

Instrument Temperature = 305.36 K

Room Temperature = 298.72 K

W = Wt. of adsorbed gas per gram of sample

Sample Outgassed at 200 Degrees Celsius

Data Point	$\frac{P}{P_0}$	$\frac{W(P_0 - 1)}{P}$
1	0.04000000	61.341
2	0.06000000	81.28501
3	0.10000000	120.163
4	0.12300000	137.411
5	0.17000000	177.529
6	0.22100000	198.852
7	0.28000000	238.79
8	0.31300000	259.757