

Anton Paar Kaomi for Nova

version 1.05
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Report date:
File Name:

11/13/2025
WS 700 11 11 2025.qcuPhysIso

Operator:

labuser

Multipoint BET Summary/Results

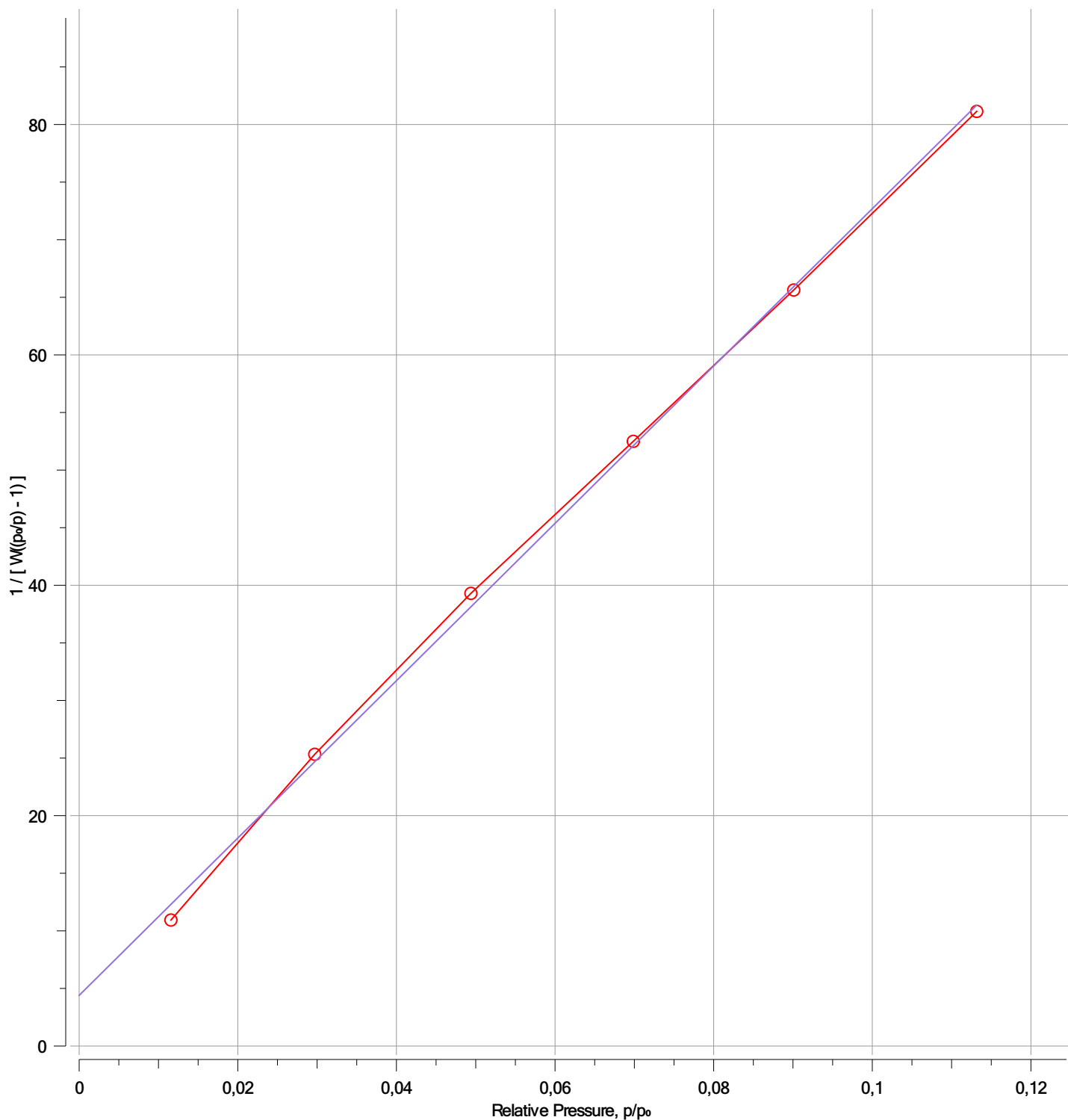
Isotherm Branch Adsorption
Correlation coeff., r 0.999381

Slope 682.939
C constant 156.344

Intercept 4.39629
Surface area 5.067 m²/g

BET-Multipoint BET

—+— BET (All points) —○— BET function — Best Fit



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BET-Multipoint BET		
Relative Pressure, p/p_0	Volume Adsorbed @STP cm^3/g	$1 / [W((p_0/p) - 1)]$
0.0115701	0.856338	10.9369
0.0297009	0.967066	25.3255
0.0493937	1.05791	39.2980
0.0698672	1.14488	52.4953
0.0900938	1.20707	65.6321
0.113170	1.25836	81.1398

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Analysis Data

Sample

ID WS 700 10 11 2025 Weight 0.6959 g
Name WS 700 10/11/2025 Description WS 700 10/11/2025

Analysis

Data ID {475a1671-5ef0-437a-9b8e-fca8d985a974}
Analysis Profile N2 10 PT BET (biochar)
Operator labuser Date 11/11/2025 Duration 163.70 min
Instrument St 3 on NOVA 800 [s/n:1050059864] Firmware 1.05
Ambient Temp. 26.94 °C Void Volume Mode He Measure Cold Zone 27.753 cm³
Warm Zone 2.44208 cm³ Cell Type 9 mm without filler rod
Thermal Delay 180 sec p₀ Mode From Ambient Pressure

Adsorbate

Name Nitrogen Molecular Weight 28.0134 g/mol Cross Sectional Area 16.2 Å²/molecule
Non-Ideality 6.58e-05 1/Torr Bath Temperature 77.35 K

Degas information

Type Vacuum Degassing
Operator labuser
Description WS 700 10/11/2025
Heating Heat to 150.0 °C at 10.0 °C/min then hold for 600 min

Data Reduction Parameters

Data Reduction Parameters

Thermal Transpiration no

Adsorbate Model

Name Nitrogen Molecular Weight 28.0134 g/mol Cross Sectional Area 16.2 Å²/molecule
Bath Temperature 77.35 K