

Densi 100

True Density Analyzer

Gas	Characteristic
Helium/Nitrogen	Nondestructive testing
Resolution	Repeatability
0.0001g/ml	±0.02%



FUNCTION: True density (Skeleton density)
True Volume
Open Porosity
Closed Porosity

Densi-100 is a fully automatic instrument to measure true density by gas displacement method, which can quickly and accurately measure the volume and automatically calculate the density of various powders, blocks, and other materials.

Test Settings

☐ Fine powder

☒ Powder

☐ Pellets

☐ Foam

☒ Customize

120

70

Sample ID

#01

Number of Purge

0

Number of Cycle

3

Calc.Count

3

Dose Pressure

140

kPa

☒ Auto Stop

RSD

0.001

☒ Porosity Test

☒ AutoPrint

Save

Cancel

Options

Parameters

Valve

Date&Time

☒ kPa

☐ psi

☐ torr

☐ bar

Calibrations

ON

OFF

☐ Mp

☐ VD

Features

Test mode: 5 test modes are built into the software. Including Pellets, Powder, Fine Powder, Foam and Customize,(air intake volume can be customized.

Test pressure: Positive pressure gas injection test, range 0-150 KPa. Users can customize the maximum pressure testing.

Test temperature range: Ambient temperature. Configure a temperature sensor to monitor the experimental temperature in real-time, which can be viewed on the display screen and the experimental report.

	Main cell volume	True density	Open porosity	Colsed porosity	Available cell volume
Densi 100	100 ml	✓	✓	✓	10 ml、 35 ml
	10 ml	✓	✓	✓	1 ml、 3 ml

- Nondestructive testing to maintain sample integrity

Programmable test procedures and data acquisition methods
- Various sample cell configurations to meet the needs of different sample sizes,1/3/10/35/100 ml

A variety of gases are available
- Fast analysis speed
High accuracy
Good repeatability

Use a touch-screen computer to operate without additional computer control

DATA Report

Sample ID:	5-3		
Sample Mass:	7.7300		
Number of Purges:	3	Analysis Gas:	He
Number of Cycles:	8	Temperature:	26.73 °C
Start Time:	2024-01-04 2046	End Time:	2024-01-04 2128

Density and Volume Table						
No.	Pcd0	Pd	Pcd1	Mp	Volume(cm3)	Density(g/cm3)
1	19.2395	150.6010	92.4135	1.2577	1.3903	5.5599
2	19.2859	150.6113	92.4434	1.2579	1.3886	5.5667
3	19.2319	150.9798	92.6218	1.2578	1.3890	5.5652
4	19.2266	150.5435	92.3765	1.2578	1.3894	5.5637
5	19.2949	150.7358	92.5125	1.2576	1.3907	5.5582
6	19.2200	150.7780	92.5071	1.2577	1.3900	5.5612
7	19.2112	150.6984	92.4577	1.2578	1.3896	5.5626
8	19.2699	150.5545	92.3986	1.2576	1.3908	5.5578
Average				1.2577	1.3898	5.5619
Std Dev						0.0030
RSD						0.0542%
Temperature						26.73 °C

