

## Porosity Measurement by Mercury Porosimeter

### Sample Requirement :-

1. Solid Sample - 2 to 5 gms.



### Applications :-

1. For Measuring Pore Volume and Pore Radius of Catalyst, Cement & Graphite Samples by Pressure induced injection of Mercury.



**C O N T A C T U S - DR. KETAN MERCHANT [ M.Sc., Ph.D - ICT ]**

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MICROMERITICS INSTRUMENT CORPORATION

AutoPore IV 9500 V1.09

Port: 1/2

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Sample ID: Feno SLC 3
Operator:
Submitter:
File: G:\9500\DATA\001-108.SMP

LP Analysis Time: 3/23/2021 5:19:05PM
HP Analysis Time: 3/23/2021 6:02:27PM
Report Time: 3/23/2021 6:03:11PM

Sample Weight: 0.2985 g
Correction Type: None
Show Neg. Int: No

Summary Report

Penetrometer parameters

Penetrometer: 3cc Bulb, 1.190 Stem, Powder
Pen. Constant: 22.065 uL/pF Pen. Weight: 61.1172 g
Stem Volume: 1.1900 mL Max. Head Pressure: 4.6800 psia
Pen. Volume: 3.8657 mL Assembly Weight: 106.4474 g

Hg Parameters

Adv. Contact Angle: 130.000 degrees Rec. Contact Angle: 130.000 degrees
Hg Surface Tension: 485.000 dynes/cm Hg Density: 13.5335 g/mL

User Parameters

Param 1: N/A Param 2: N/A Param 3: N/A

Low Pressure:

Evacuation Pressure: 50 uHg
Evacuation Time: 10 mins
Mercury Filling Pressure: 0.51 psia
Equilibration Time: 10 secs

High Pressure:

Equilibration Time: 10 secs

No Blank Correction

(From Diameter 300 to 150000 A)

Intrusion Data Summary

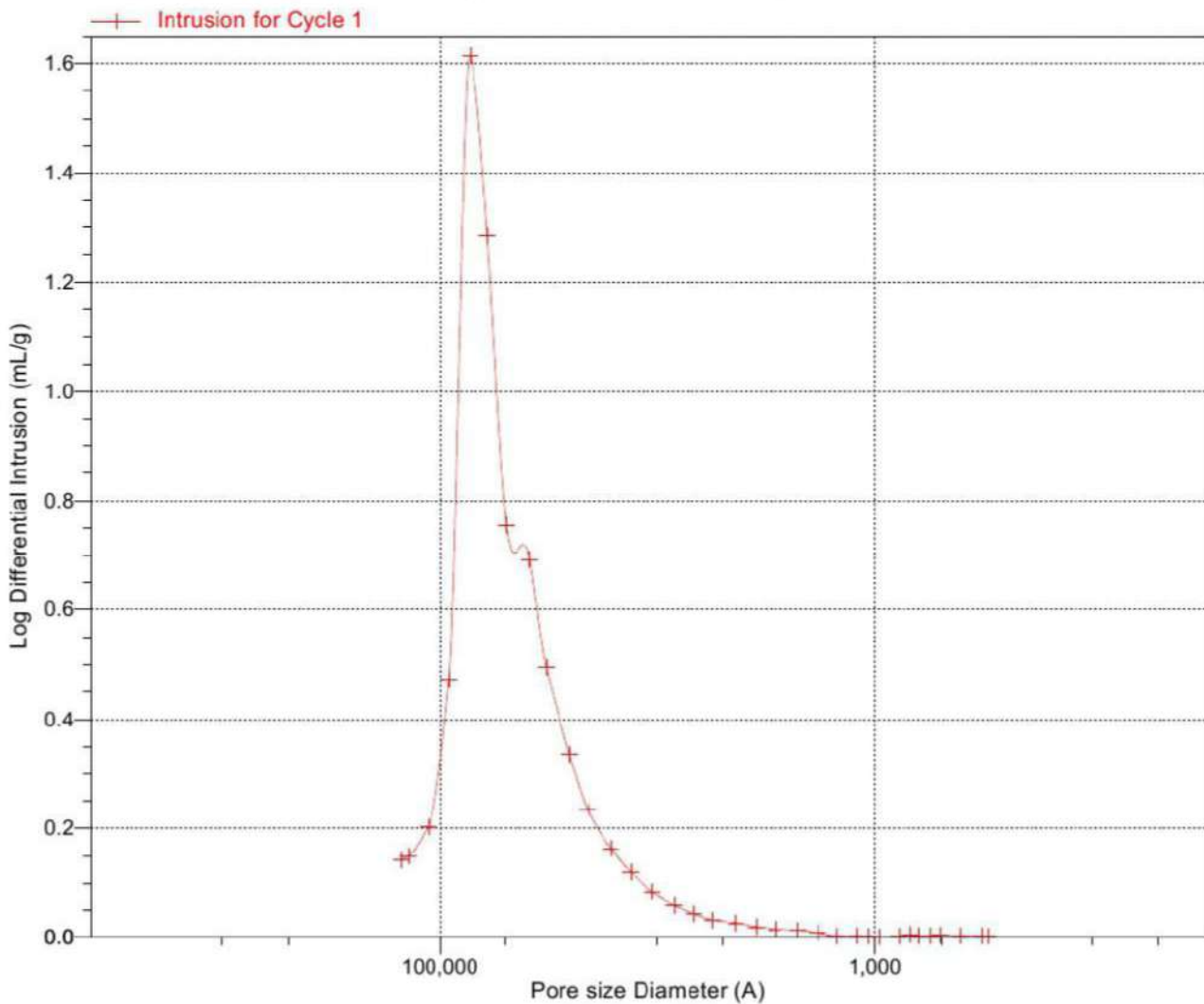
Total Intrusion Volume = 0.6235 mL/g
Total Pore Area = 0.875 m^2/g
Median Pore Diameter (Volume) = 57508 A
Median Pore Diameter (Area) = 20031 A
Average Pore Diameter (4V/A) = 28507 A
Bulk Density at 12.06 psia = 0.5545 g/mL
Apparent (skeletal) Density = 0.8476 g/mL
Porosity = 34.5763 %

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**Log Differential Intrusion vs Pore size**



Sample ID: Feno SLC 3  
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File: G:\9500\DATA\001-108.SMP

LP Analysis Time: 3/23/2021 5:19:05PM  
HP Analysis Time: 3/23/2021 6:02:27PM  
Report Time: 3/23/2021 6:03:12PM

Sample Weight: 0.2985 g  
Correction Type: None  
Show Neg. Int: No

**Log Differential Intrusion vs Pore size**

