



**Boral Construction Materials
Materials Technical Services**

Unit 4, 3-5 Gibbon Road
Baulkham Hills NSW 2153 Australia
PO Box 400, Winston Hills NSW 2153

T: +61 (02) 9624 9900
F: +61 (02) 9624 9999

www.boral.com.au

TEST REPORT

CLIENT: XYPEX AUSTRALIA
Address: 190 Toongabbie Road, Girraween, NSW 2145

FILE NO: 256/19

LAB SAMPLE NO: 217238

REQUEST No: 82977

SAMPLE IDENTIFICATION: Ecotec Silica Fume – Monthly Sample for End of February 2019

IDENTIFICATION OF CEMENT USED: Boral Cement SL Berrima Ref. No. 203-608-001-Aug 2016

TEST METHOD: AS3583: Methods of test for supplementary cementitious materials for use with Portland Cement

PROPERTY	DATE TESTED	RESULT	TEST METHOD
Relative density	29/04/2019	2.23	AS 3583.5
Relative water requirement	02/05/2019	111%	AS 3583.6
Relative strength 7days (accelerated)	09/05/2019	104%	AS 3583.6
Relative strength 28days (standard)	30/05/2019	90%	AS 3583.6

Note: Sample supplied by the client and tested as received.

Shaun Guthridge, Mat. File, File



Approved Signatory Sharjeel Mahmood
Date 07-06-2019 Serial No. 180933

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 547



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TEST REPORT

CLIENT: XYPEX AUSTRALIA

Address: 190 Toongabbie Road, Girraween, NSW 2145

FILE NO: 256/19

REQUEST NO: 82977

LAB. SAMPLE NO: 217238

SOURCE OF SAMPLE: Unknown

SAMPLE IDENTIFICATION: Ecotec Silica Fume – Monthly Sample for End of February 2019

TEST METHOD: AS3583: Methods of test for supplementary cementitious materials for use with Portland Cement

PROPERTY	DATE TESTED	RESULT	TEST METHOD	AS3582 SPEC.
Moisture content	16/05/2019	0.6%	AS 3583.2	Max. 3.0%
Loss on ignition	16/05/2019	1.8%	AS 3583.3	Max. 6.0%
Relative Density	29/04/2019	2.23	AS 3583.5	

Note: Sample supplied by the client and tested as received.

Shaun Guthridge, Mat. File, File



Approved Signatory

Sharjeel Mahmood

Sharjeel Mahmood

Date 07-06-2019 Serial No. 180934

180934

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 547



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TEST REPORT

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FILE NO: 256/19

ADDRESS: 190 Toongabbie Road, Girraween, NSW 2145

REQUEST NO: 82977

LAB SAMPLE NO: 217238

SOURCE OF SAMPLE: Unknown

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IDENTIFICATION OF CEMENT USED: Boral Cement SL Berrima – Ref. 2016

TEST METHOD: ASTM C-1240 Use of Silica Fume as a Mineral Admixture in Hydraulic-Cement Concrete, Mortar & Grout

Accelerated Pozzolanic Strength Activity Index With Portland Cement - ASTM C1240

Date Cast: 09/05/2019

Date Crushed: 16/05/2019 @ 7 Days

Results:	Accelerated Pozzolanic Strength Activity Index:	101% @ 7 Days
	Control Mix Strength:	29.7 MPa
	Test Mix Strength:	30.0 MPa

Note:

Test mix used 242 mls of water and 2.1 grams of Dry Water Reducer (1000 NT from BASF) to obtain a flow of 100 %.

Note: Sample supplied by the client and tested as received.

Shaun Guthridge, Mat. File, File



Approved Signatory

Sharjeel Mahmood

Date 07-06-2019 Serial No.

180935

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 547



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TEST REPORT

CLIENT: XYPEX AUSTRALIA

FILE NO: 256/19

ADDRESS: 190 Toongabbie Road, Girraween, NSW 2145

REQUEST NO: 82977

LAB. SAMPLE NO: 217238

SOURCE OF SAMPLE: Unknown

SAMPLE IDENTIFICATION: Ecotec Silica Fume – Monthly Sample for End of February 2019

Bulk Density - AS3582.3 – Clause 7.1.7

Result: 643 Kg/m³

Note: Sample supplied by the client and tested as received.

Shaun Guthridge, Mat. File, File


Sharjeel Mahmood
07/06/2019



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TEST REPORT

CLIENT: XYPEX AUSTRALIA
190 Toongabbie Road, Girraween, NSW 2145.

FILE No.:256/19

PROJECT: Testing of Silica Fume sample for End of February '2019.

REQUEST No.: 82977

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 217238
Date Sampled: End of February '2019
Date Received: 08/03/19
Sample Description: Ecotec Silca Fume –
Monthly Sample for End of
February '2019.
Field No.: 1

TEST RESULTS:

Sodium as Na ₂ O (%)	0.06
Potassium as K ₂ O (%)	0.06
Available Alkali (%)	0.1

Available Alkali (%) = Na₂O (%) + (0.658 x K₂O %)

Samples submitted by the Client.

S.Guthridge, Mat. File, File.



Approved Signatory

Nanthini Selvadurai

Date 11-04-19

Serial No.

180936



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TEST REPORT

CLIENT: XYPEX AUSTRALIA
190 Toongabbie Road, Girraween NSW 2145.

FILE No.:256/19

PROJECT: Testing of Silica Fume sample for End of February '2019

REQUEST No.:82977

TEST PROCEDURE: AS 3583.13 – Determination of Chloride Ion content
AS 3583.8 – Determination of Sulfuric Anhydride content

Laboratory Sample No.: 217238
Date Sampled: End of February '2019
Date Received: 01/03/19
Sample Description: Ecotec Silca Fume
monthly sample for End
of February' '2019.
Field No.: 1

TEST RESULTS:

Chloride as Cl⁻ (%) 0.123
Sulphate as SO₃ (%) 0.1

Samples submitted by the Client.

S.Guthridge, Mat. File, File.



Approved Signatory NQS Nanthini Selvadurai

Date 11-04-19 Serial No. 180937

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 9968



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TEST REPORT

CLIENT: XYPEX AUSTRALIA
190, Toongabbie Road Girraween NSW 2145.

FILE No.: 256/19

PROJECT: Testing of Silica fume sample for End of February' 2019.

REQUEST No.: 82977

**TEST PROCEDURE: Boral Chemical Method 2 – Determination of metal oxides by
Lithium Meta Borate Fusion and analysed using ICP**

Laboratory Sample No.: 217238
Date Sampled: End of February'
2019.
Date Received: 01/03/19
Sample Description: Ecotec Silica Fume
monthly sample for
End of February'
2019.
Field No.: 1

TEST RESULTS

Silicon as SiO ₂ (%)	91.1
Sodium as Na ₂ O (%)	0.31
Potassium as K ₂ O (%)	1.01
Total Alkali content as Na ₂ O equiv. (%)	1.0

Sample submitted by the Client.

A handwritten signature in black ink, appearing to read "Nanthini S".

Nanthini S
Analytical Chemist
11th April 2019.
S.Guthridge, Mat. File, File.



Particle and Surface Sciences Pty. Limited

PO Box 1926, Gosford NSW Australia 2250 Phone: (+61) 02 4323 7822 Email: psinfo@bigpond.com ACN: 051 682 396 ABN: 32 051 082 396

Particle and Surface Sciences Surface Area Analysis

MicroActive 5.01

3000
Serial # 1586 Unit 1 Port 1

Page 1 of 12

Sample: LSN 217238
Operator: PS
Submitter: Boral
File: E:\Dropbox (PsS)\Lab\Customers\L192 - Boral Quarries & Concrete\5624\000-172.SMP

Started: 3/28/2019 1:02:58 PM	Analysis adsorptive: N2
Completed: 3/28/2019 5:12:37 PM	Analysis bath temp.: 77.518 K
Report time: 3/29/2019 9:21:15 AM	Thermal correction: No
Sample mass: 0.6144 g	Ambient free space: 12.3315 cm ³ Measured
Analysis free space: 31.9092 cm ³	Port volume: 0.0000 cm ³
Equilibration Interval: 15 s	Low pressure dose: None
Sample density: 1.000 g/cm ³	Automatic degas: No

Summary Report

Surface Area

Single point surface area at $p/p^* = 0.250254740$: 16.3532 m²/g

BET Surface Area: 16.7080 m²/g

Langmuir Surface Area: 24.2755 m²/g

t-Plot Micropore Area: 2.7002 m²/g

t-Plot external surface area: 14.0078 m²/g

BJH Adsorption cumulative surface area of pores
between 17.000 Å and 3,000.000 Å width: 6.1911 m²/g

D-H Adsorption cumulative surface area of pores
between 17.000 Å and 3,000.000 Å width: 5.7990 m²/g

Pore Volume

Single point adsorption total pore volume of pores
less than 25.898 Å width at $p/p^* = 0.300752002$: 0.008167 cm³/g

t-Plot micropore volume: 0.001195 cm³/g

BJH Adsorption cumulative volume of pores
between 17.000 Å and 3,000.000 Å width: 0.003325 cm³/g

D-H Adsorption cumulative volume of pores
between 17.000 Å and 3,000.000 Å width: 0.003144 cm³/g

Pore Size

Adsorption average pore diameter (4V/A by BET): 19.553 Å

BJH Adsorption average pore width (4V/A): 21.484 Å

D-H Adsorption average pore width (4V/A): 21.684 Å



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Equilibration interval: 15 s	Low pressure dose: None
Sample density: 1.000 g/cm ³	Automatic degas: No

Freundlich

Qm·C: 2.6166 ± 0.0281 cm³/g STP

m: 5.0421 ± 0.1412

Temkin

q·alpha/Qm: 0.785407 ± 0.042253 kJ/mol·(cm³/g STP)

A: 16.5382 ± 4.6771 kPa

Nanoparticle Size:

Average Particle Size 3,591.096 Å

Horvath-Kawazoe

Maximum pore volume at p/p° = 0.149550910: 0.006867 cm³/g

Median pore width: 9.243 Å

MP-Method

Cumulative surface area of pores between
3.2773 Å and 5.0000 Å hydraulic radius: 4.4920 m²/g

Cumulative pore volume of pores between
3.2773 Å and 5.0000 Å hydraulic radius: 0.001804 cm³/g

Average pore hydraulic radius (V/A): 4.0151 Å



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Analysis free space: 31.9092 cm ³	Port volume: 0.0000 cm ³
Equilibration interval: 15 s	Low pressure dose: None
Sample density: 1.000 g/cm ³	Automatic degas: No

Isotherm Tabular Report

Relative Pressure (p/p ^o)	Absolute Pressure (kPa)	Quantity Adsorbed (cm ³ /g STP)	Elapsed Time (h:min)	Saturation Pressure (kPa)
0.027770931	2.8693458	3.2591	03:31	103.3219143
0.033585043	3.4700709	3.3687	03:44	
0.053883131	5.5673082	3.6588	03:47	
0.096924652	10.0144406	4.0717	03:51	
0.149550910	15.4518863	4.4392	03:55	
0.199868625	20.6508089	4.7361	03:58	
0.250254740	25.8567988	5.0112	04:02	
0.300752002	31.0742726	5.2802	04:05	
			04:08	



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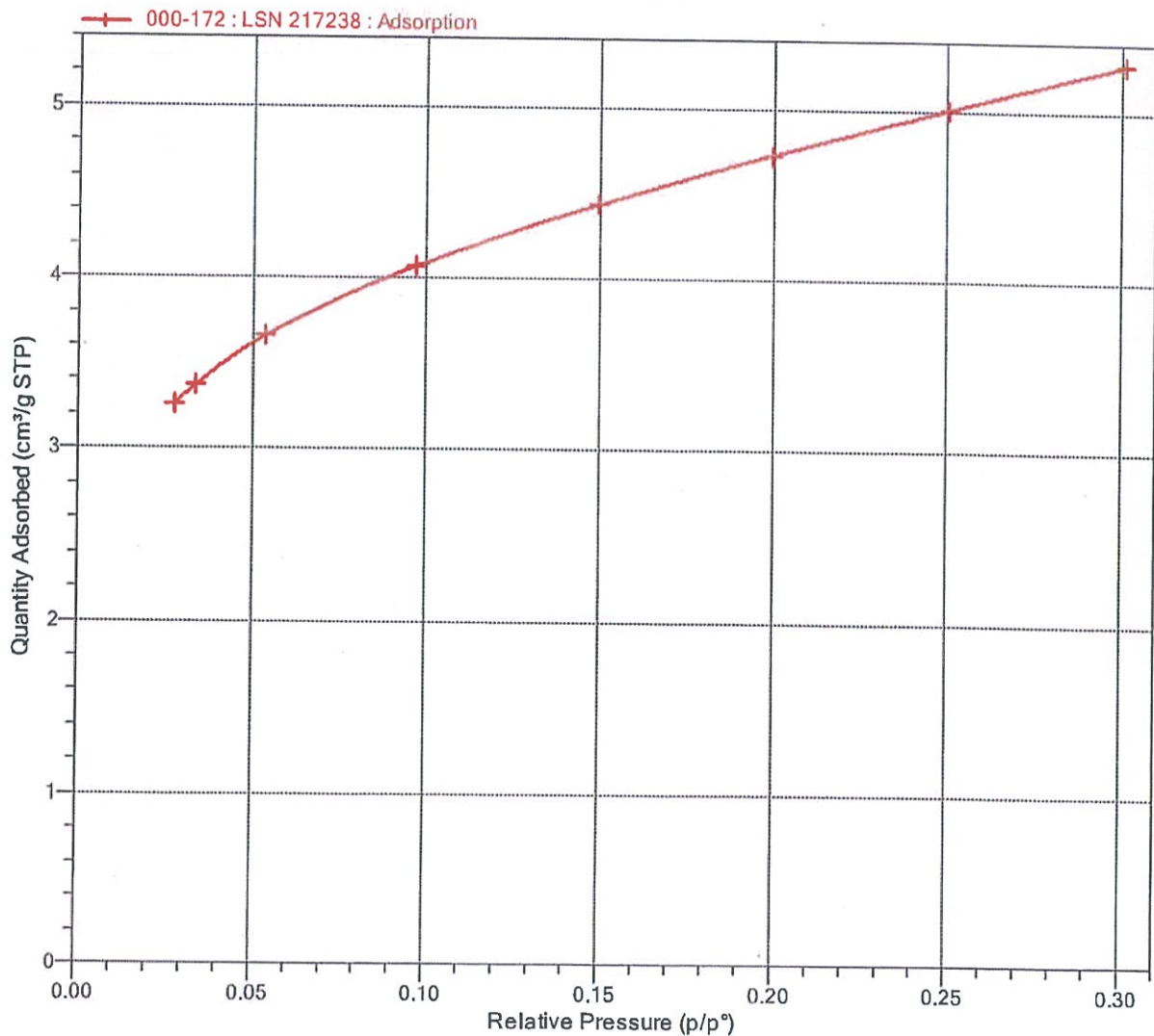
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Analysis free space: 31.9092 cm³
Equilibration interval: 15 s
Sample density: 1.000 g/cm³

Analysis adsorptive: N₂
Analysis bath temp.: 77.518 K
Thermal correction: No
Ambient free space: 12.3315 cm³ Measured
Port volume: 0.0000 cm³
Low pressure dose: None
Automatic degas: No

Isotherm Linear Plot





Particle and Surface Sciences Surface Area Analysis

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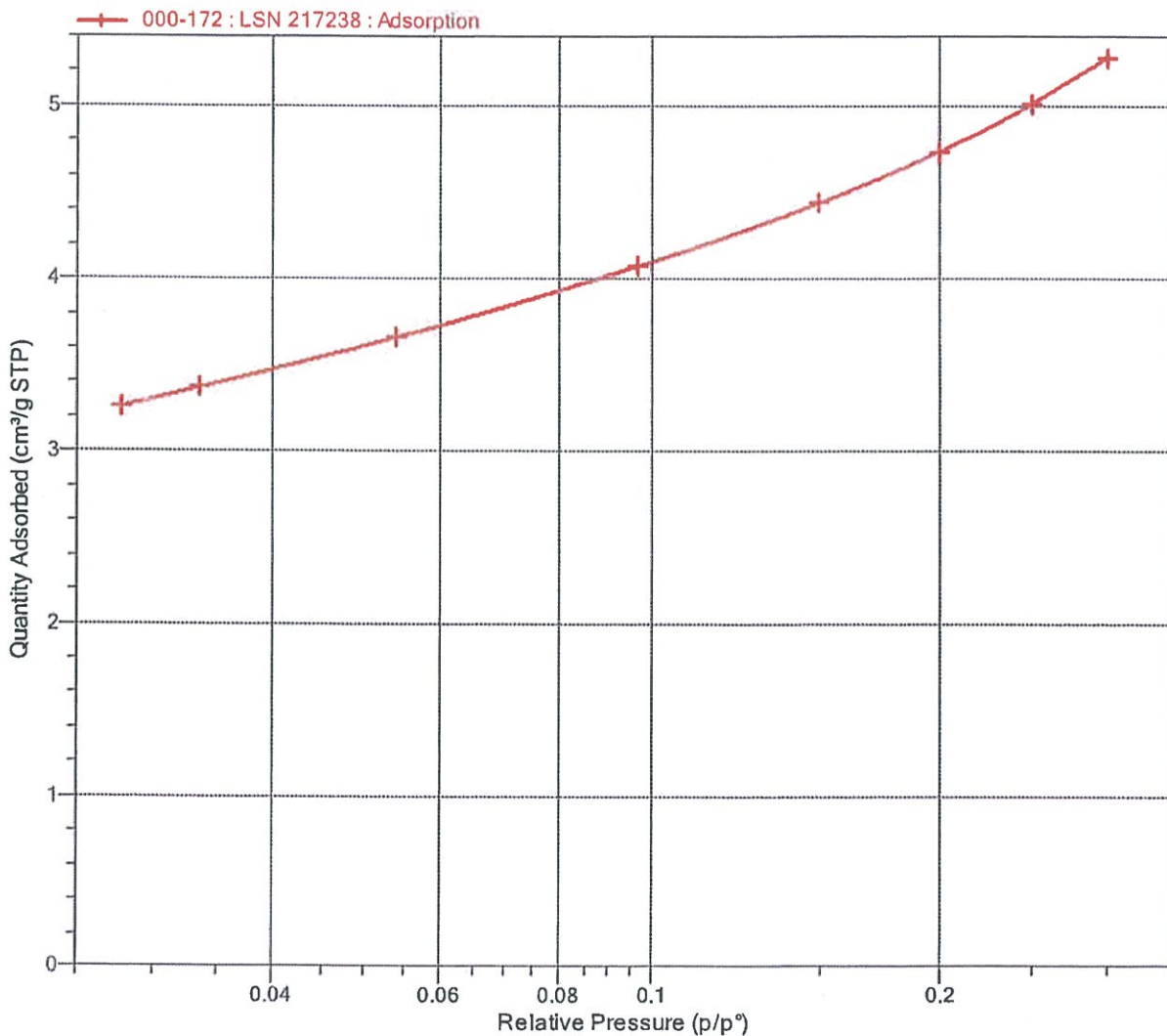
Page 5 of 12

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Equilibration interval: 15 s
Sample density: 1.000 g/cm³

Analysis adsorptive: N2
Analysis bath temp.: 77.518 K
Thermal correction: No
Ambient free space: 12.3315 cm³ Measured
Port volume: 0.0000 cm³
Low pressure dose: None
Automatic degas: No

Isotherm Log Plot





Particle and Surface Sciences Surface Area Analysis

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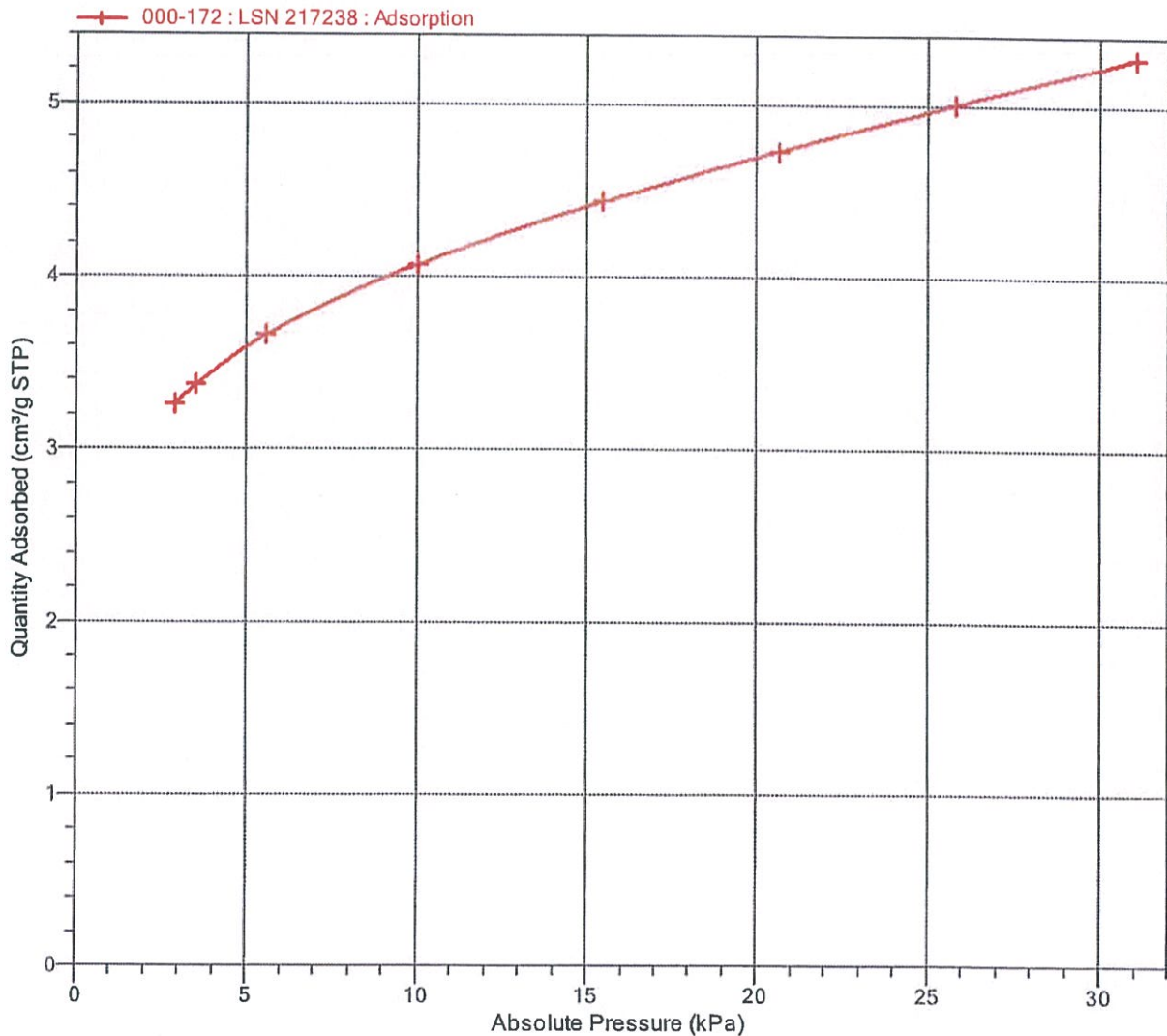
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Isotherm Linear Absolute Plot





Particle and Surface Sciences Surface Area Analysis

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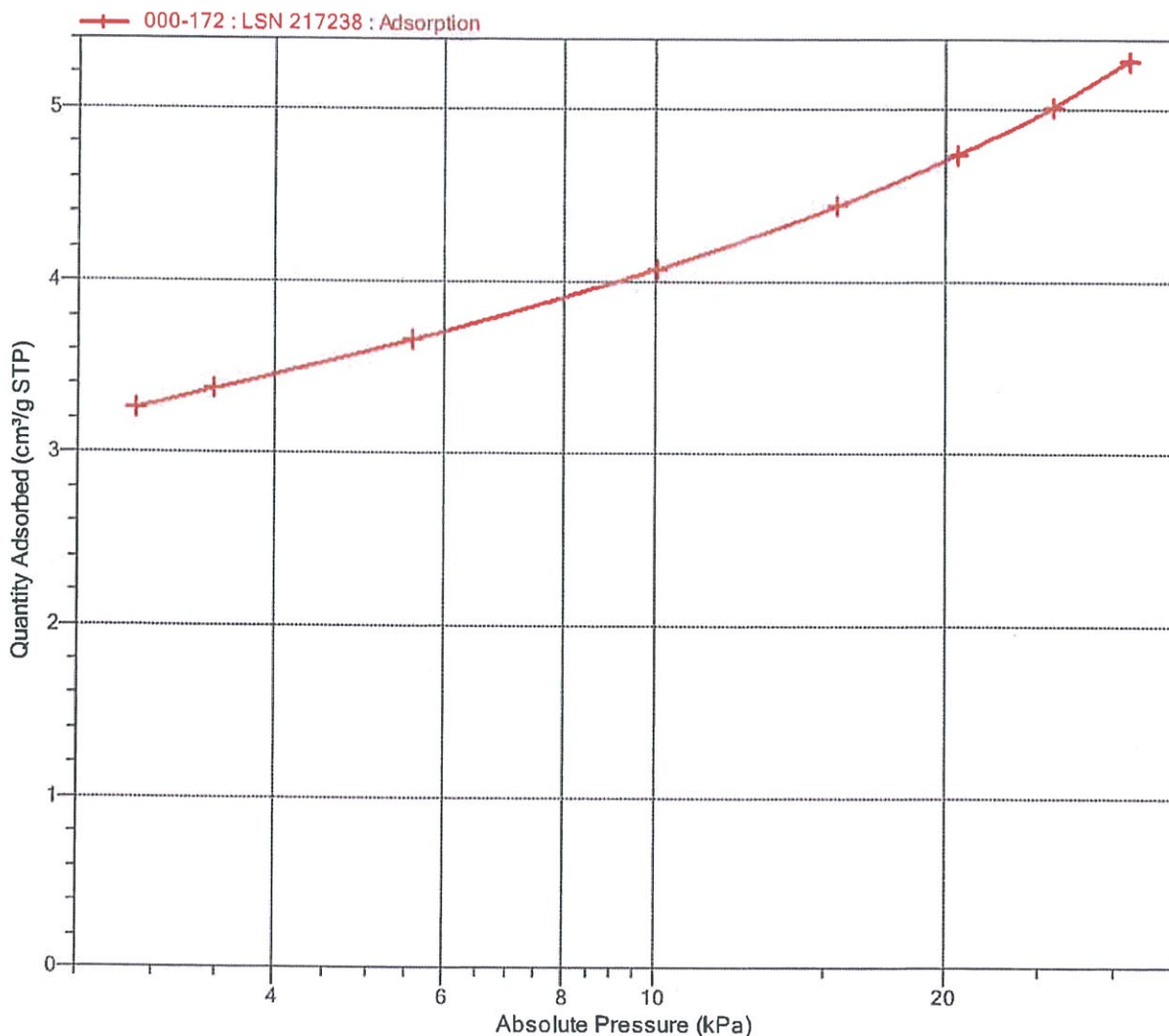
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Equilibration interval: 15 s
Sample density: 1.000 g/cm³

Analysis adsorptive: N2
Analysis bath temp.: 77.518 K
Thermal correction: No
Ambient free space: 12.3315 cm³ Measured
Port volume: 0.0000 cm³
Low pressure dose: None
Automatic degas: No

Isotherm Log Absolute Plot





Particle and Surface Sciences Surface Area Analysis

MicroActive 5.01

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Serial # 1586 Unit 1 Port 1

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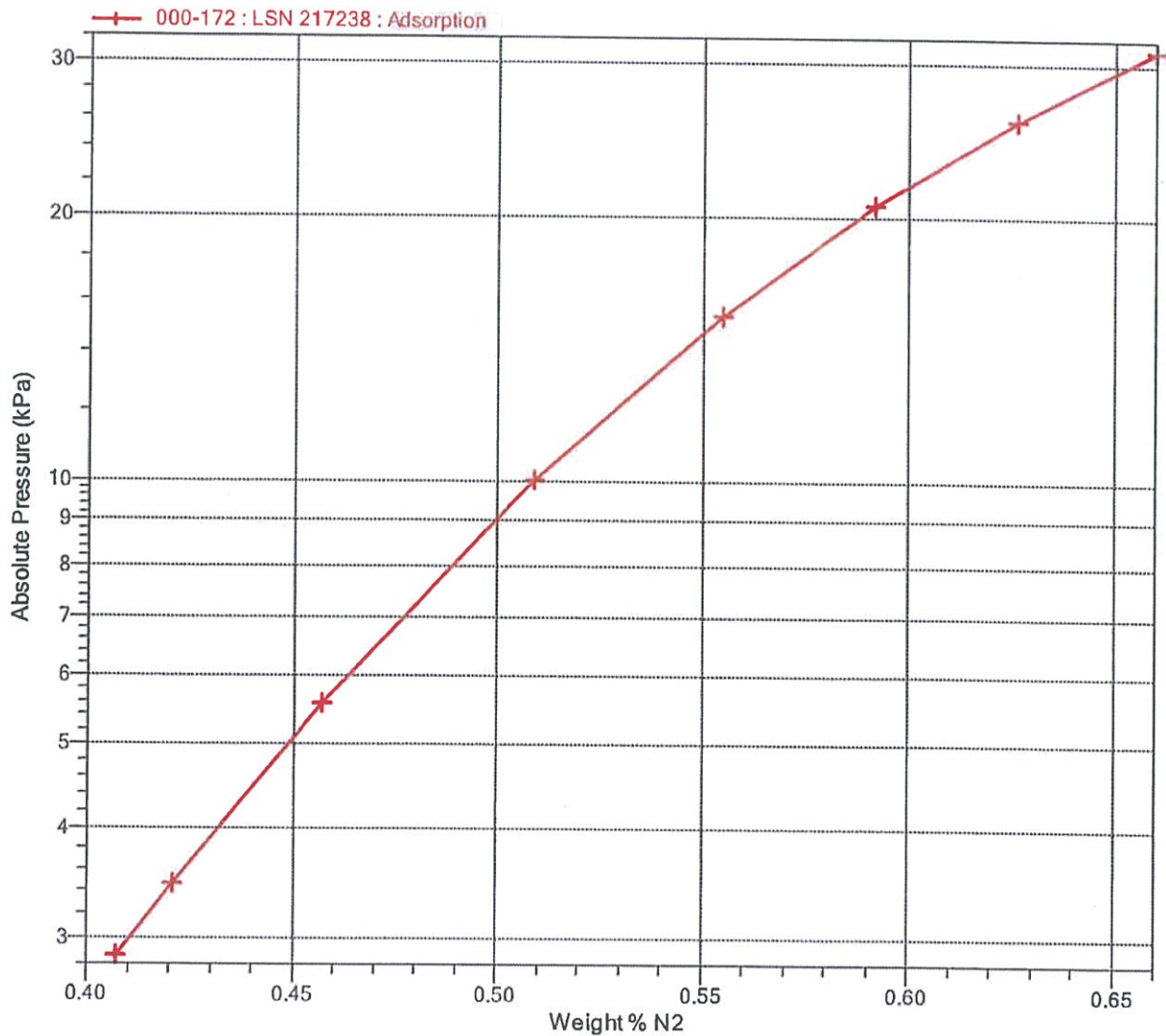
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Sample density: 1.000 g/cm³

Analysis adsorptive: N2
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Automatic degas: No

Isotherm Pressure Composition





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Equilibration interval: 15 s	Low pressure dose: None
Sample density: 1.000 g/cm ³	Automatic degas: No

BET Report

BET surface area: 16.7080 ± 0.1885 m²/g
Slope: 0.259242 ± 0.002899 g/cm³ STP
Y-intercept: 0.001266 ± 0.000480 g/cm³ STP
C: 205.701574
Qm: 3.8386 cm³/g STP
Correlation coefficient: 0.9998125
Molecular cross-sectional area: 0.1620 nm²

Relative Pressure (p/p ^o)	Quantity Adsorbed (cm ³ /g STP)	1/[Q(p ^o /p - 1)]
0.053883131	3.6588	0.015566
0.096924652	4.0717	0.026359
0.149550910	4.4392	0.039613
0.199868625	4.7361	0.052743
0.250254740	5.0112	0.066608



Particle and Surface Sciences Surface Area Analysis

MicroActive 5.01

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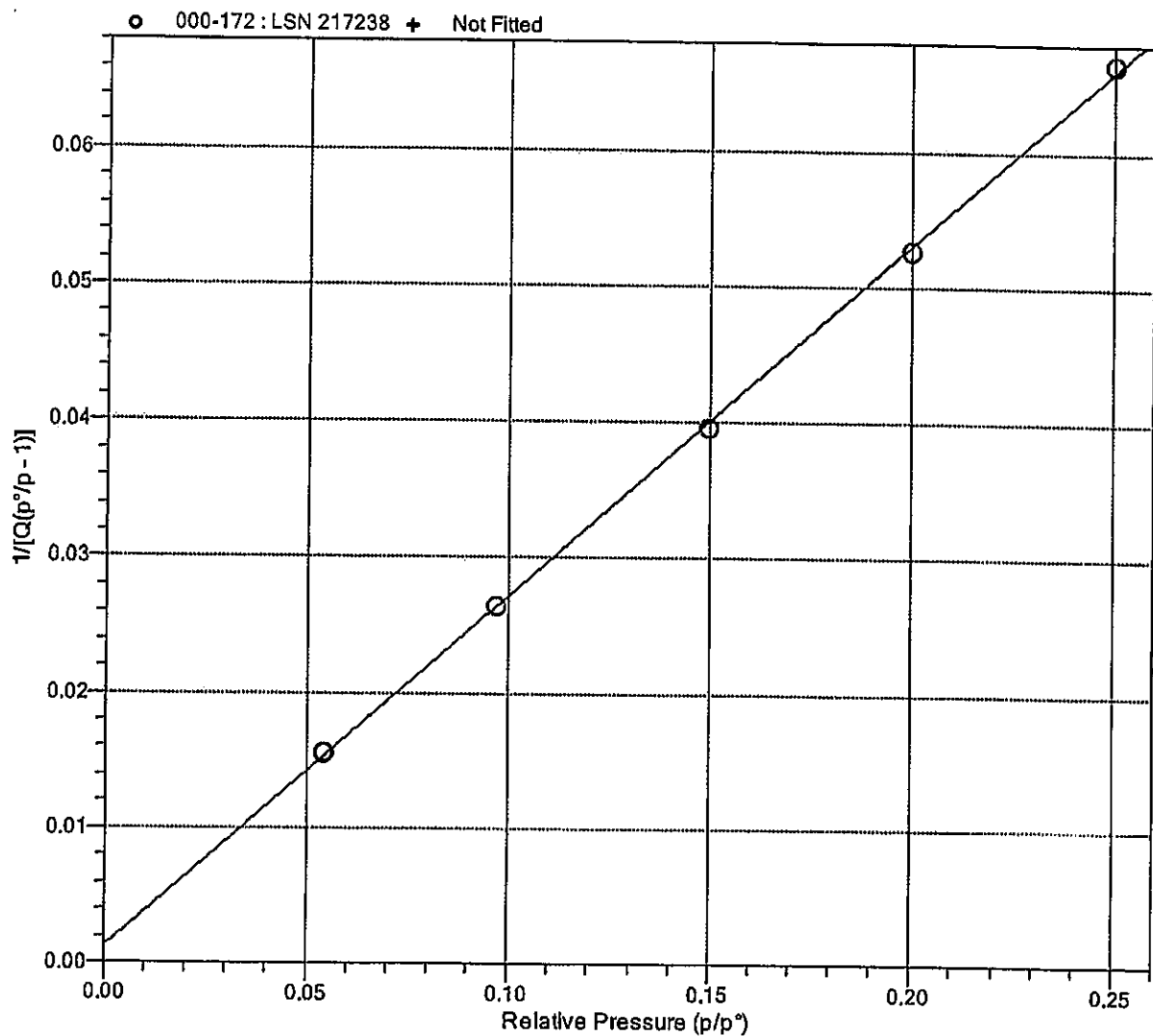
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Equilibration interval: 15 s
Sample density: 1.000 g/cm³

Analysis adsorptive: N2
Analysis bath temp.: 77.518 K
Thermal correction: No
Ambient free space: 12.3315 cm³ Measured
Port volume: 0.0000 cm³
Low pressure dose: None
Automatic degas: No

BET Surface Area Plot





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Equilibration interval: 15 s	Low pressure dose: None
Sample density: 1.000 g/cm ³	Automatic degas: No

Langmuir Report

Langmuir surface area: 24.2755 ± 0.7694 m²/g
Slope: 0.179300 ± 0.005683 g/cm³ STP
Y-intercept: 0.5208 ± 0.0995 g/cm³ STP·kPa
b: 0.34429 1/kPa
Qm: 5.5773 cm³/g STP
Correlation coefficient: 0.997000
Molecular cross-sectional area: 0.1620 nm²

Pressure (kPa)	Quantity Adsorbed (cm ³ /g STP)	p/Q (g/cm ³ STP·kPa)
2.8693458	3.2591	0.8804
3.4700709	3.3687	1.0301
5.5673082	3.6588	1.5216
10.0144406	4.0717	2.4595
15.4518863	4.4392	3.4808
20.6508089	4.7361	4.3603
25.8567988	5.0112	5.1598
31.0742726	5.2802	5.8851



Particle and Surface Sciences Surface Area Analysis

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Langmuir Surface Area Plot

