

MATERIALS TECHNICAL SERVICES
BORAL RESOURCES (NSW) PTY LTD
ABN 61 000 766 807
Unit 4, 3-5 Gibbon Road
Baulkham Hills NSW 2153 Australia
PO Box 400, Winston Hills NSW 2153
Telephone 61 2 9624 9900
Facsimile 61 2 9624 9999

TEST REPORT

CLIENT: XYPEX AUSTRALIA
Address: 9/177 Arthur Street Homebush West NSW 2140

FILE NO: 256/10

SOURCE OF SAMPLE: Unknown

LAB SAMPLE NO: 104443

REQUEST NO.: 38613

SAMPLE IDENTIFICATION: Ecotec Silica Fume – Monthly Sample for May 2010

IDENTIFICATION OF CEMENT USED: BCSC GP Cement – ID # 45379

TEST METHOD: ASTM C-1240-04 Use of Silica Fume as a Mineral Admixture in Hydraulic-Cement Concrete, Mortar & Grout

Accelerated Pozzolanic Strength Activity Index With Portland Cement - ASTM C1240-04

Date Cast: 02-06-10 Date Crushed: 09-06-10 @ 7 Days

Results:	Accelerated Pozzolanic Strength Activity Index:	108 % @ 7 Days
	Control Mix Strength:	36.7 MPa
	Test Mix Strength:	39.8 MPa


Note:

Test mix used 242 mls of water and 6.6 grams of Water Reducer (Rheobuild 1000 from BASF) to obtain a flow of 105%.

Daniel Rowley, Mat. File, File

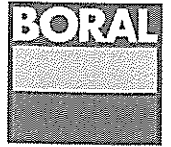
Muans Abdulnebe



Approved Signatory 
Date 09/07/10 Serial No. 87737

*This document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025*

NATA Accredited Laboratory
Number: 547



MATERIALS TECHNICAL SERVICES
BORAL RESOURCES (NSW) PTY LTD
ABN 51 000 756 507

Unit 4, 3-5 Gibbon Road
Baulkham Hills NSW 2153 Australia
PO Box 400, Winston Hills NSW 2153
Telephone 61 2 9624 9900
Facsimile 61 2 9624 9999

www.boral.com.au

TEST REPORT

CLIENT: XYPEX AUSTRALIA
Address: 9/177 Arthur Street Homebush West NSW 2140

FILE NO: 256/10

REQUEST NO.: 38613

LAB. SAMPLE NO: 104443

SOURCE OF SAMPLE: Unknown

SAMPLE IDENTIFICATION: Ecotec Silica Fume –Monthly Sample for May 2010

Bulk Density - AS3582.3.6.5

Result: 631 Kg/m³

A handwritten signature in black ink, appearing to read "Tatiana Lysova", written over a horizontal line.

Tatiana Lysova
15-06-2010

Daniel Rowley, Mat. File, File



MARCH 2010

Particle & Surface Sciences Pty. Limited

PO Box 1926, Gosford, NSW, Australia 2250. Tel: (61) 02 43 237822 Fax: (61) 02 43 237629 Email: info@pss.aus.net
DataMaster V4.03 U Unit 0 Serial #: 909 Page 1

Sample ID: 104441
Setup ID: None
Converted from: L:\GEMINI\DATA\L192\3804\104441.MGD
File: L:\...3804\104441.DMT

Started: 16/07/2010 1:23:49PM	Analysis Adsorptive: N2
Completed: 16/07/2010 2:45:56PM	Analysis Bath Temp.: 77.150 K
Report Time: 19/07/2010 11:56:18AM	Thermal Correction: No
Sample Mass: 0.3015 g	Warm Free Space: -0.6156 cm ³ Measured
Equilibration Interval: 10 s	Low Pressure Dose: None
Sample Density: 1.000 g/cm ³	Automatic Degas: No

Summary Report

Surface Area

Single point surface area at $p/p^{\circ} = 0.200774184$: 21.9853 m²/g

BET Surface Area: 22.7506 m²/g

Langmuir Surface Area: 30.9443 m²/g



Sample ID: 104442
Setup ID: None
Converted from:: L:/GEMINI/DATA/L192/3804/104442.MGD
File: L:\...3804\104442.DMT

Started: 16/07/2010 3:07:12PM	Analysis Adsorptive: N2
Completed: 16/07/2010 4:34:10PM	Analysis Bath Temp.: 77.150 K
Report Time: 19/07/2010 11:56:19AM	Thermal Correction: No
Sample Mass: 0.3532 g	Warm Free Space: -0.7671 cm ³ Measured
Equilibration Interval: 10 s	Low Pressure Dose: None
Sample Density: 1.000 g/cm ³	Automatic Degas: No

Summary Report

Surface Area

Single point surface area at $p/p^{\circ} = 0.200863181$: 18.5970 m²/g

BET Surface Area: 19.2749 m²/g

Langmuir Surface Area: 26.2490 m²/g



Particle & Surface Sciences Pty. Limited

PO Box 1926, Gosford, NSW, Australia 2250. Tel: (61) 02 43 237822 Fax: (61) 02 43 237629 Email: info@pss.aus.net

DataMaster V4.03 U

Unit 0

Serial #: 909

Page 1

Sample ID: 104443

Setup ID: None

Converted from:: L:/GEMINI/DATA/L192/3804/104443.MGD

File: L:\...\3804\104443.DMT

Started: 19/07/2010 10:16:12AM

Completed: 19/07/2010 11:39:12AM

Report Time: 19/07/2010 11:56:21AM

Sample Mass: 0.3522 g

Equilibration Interval: 10 s

Sample Density: 1.000 g/cm³

Analysis Adsorptive: N2

Analysis Bath Temp.: 77.150 K

Thermal Correction: No

Warm Free Space: -0.8180 cm³ Measured

Low Pressure Dose: None

Automatic Degas: No

Summary Report

Surface Area

Single point surface area at $p/p^{\circ} = 0.200782308$: 19.0051 m²/g

BET Surface Area: 19.6275 m²/g

Langmuir Surface Area: 26.6784 m²/g