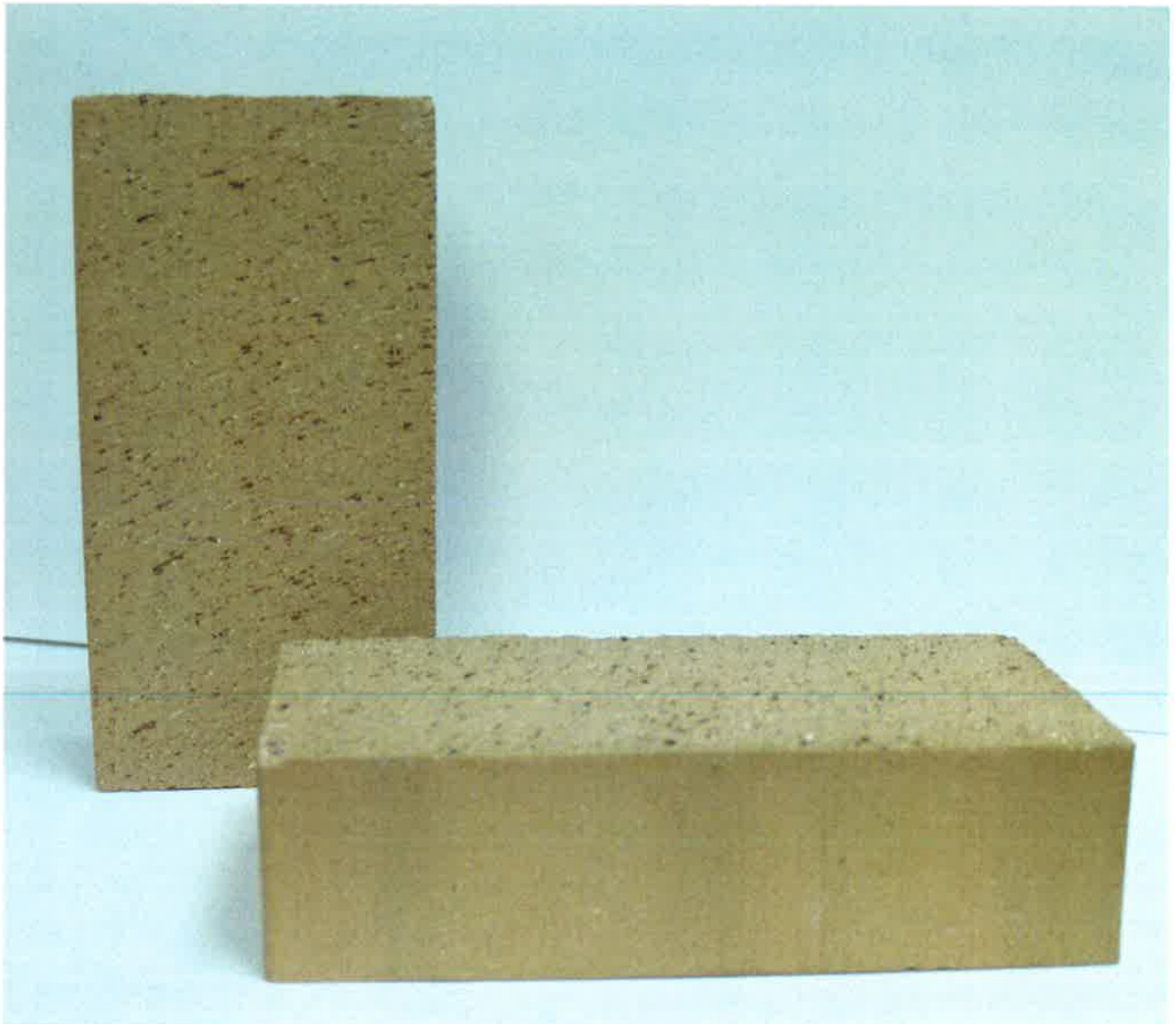


**ASTM C24 Pyrometric Cone Equivalent (PCE)
of Fireclay and High Alumina Refractory Materials**

Date: February 10, 2014
Material: Refractory
Preparation: Ground to -70 mesh

Customer: Pine Hall Brick Company
Customer PO: W. Steele
Orton SO: 094157

Sample ID	PCE Value	Deformation Temperature (°F)	Comments
Brick - PHB01	17	2754	



TEST REPORT
THE BISHOP MATERIALS LABORATORY

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Results of Tests on Brick conducted in accordance with ASTM C67-13 Standard Method for Sampling and

Testing Brick and Structural Clay Tile

03/20/2014

Name:	Pine Hall Brick Company, Inc 10000 Fairmount Highway SE Fairmount , GA 30139	Plant:	Fairmount	*Temperature: 70 - 77F
Phone:		Report Number:		*Humidity: 45% - 55%
Fax:		Received Date:	03/12/2014	
		Sampled Date:	03/12/2014	
		Lot:		
		Product Code:		

Sample Description: **PHB Firebrick**

								Test Date
Modulus of Rupture		1	2	3	4	5	Average	
	<i>psi</i>	1,246	1,263	1,182	1,138	1,692	1,304	03/18/2014
	<i>MPa</i>	8.6	8.7	8.2	7.8	11.7	9	

John Sanders, Ph.D., PE, Director

Gary W. Parker, Laboratory Supervisor

*This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

*The temperature and humidity of the Bishop Materials Laboratory is constantly kept between 70 -77F, and 45-55%

The results shown above apply only to the samples tested, which are provided by the customer.

This test report shall not be reproduced except in full, without written approval of the laboratory.