



BILLING RATES - FY 08/09

DEPARTMENT NAME :
The National Brick Research Center

VICE-PRESIDENT AREA :
Academic Affairs

DESCRIPTION OF COMMODITY OR SERVICE :	UNIT OF BILLING	FY 08/09 RATE		CUSTOMERS BEING SERVED
		Member	Non-Member	
Use of The Bishop Ceramic Research Facility for Product Testing by an Industrial Client with Center Staff Control:	daily rate	\$330.00	\$824.00	Brick & Tile Industry
ASTM C-20				
Porosity, Absorption, Specific Gravity, Bulk Density	5 bricks or shapes	\$60.00	\$120.00	Brick Industry
ASTM C-32				
Compressive Strength	5 bricks	\$55.00	\$110.00	Brick Industry
BWA	5 bricks	\$48.00	\$96.00	Brick Industry
ASTM C-67				
Modulus of Rupture	5 bricks	\$42.00	\$84.00	Brick Industry
Compressive Strength	5 bricks	\$55.00	\$110.00	Brick Industry
Absorptions	5 bricks	\$48.00	\$96.00	Brick Industry
Freeze/Thaw	5 bricks	\$260.00	\$520.00	Brick Industry
Initial Rate of Absorption (IRA)	5 bricks	\$18.00	\$36.00	Brick Industry
Efflorescence	10 bricks	\$43.00	\$86.00	Brick Industry
Test for Absorptions, compressive strength, IRA & Efflorescence Which Exceed 200 Sets per Year **	per set	\$85.00		Brick Industry
Void Area	10 bricks	\$16.00	\$32.00	Brick Industry
Dimensions & Distortion	10 bricks	\$25.00	\$50.00	Brick Industry
ASTM C-90				
Loadbearing Concrete Masonry Units	9 samples	\$205.00	\$410.00	Brick Industry

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ASTM C-113 Reheat Change (27300F Limit)	3 bricks	\$273.00	\$546.00	Brick Industry
ASTM C-126 Compressive Strength	5 bricks	\$55.00	\$110.00	Brick Industry
ASTM C-279/C-980 Modulus of Rupture	5 bricks	\$43.00	\$86.00	Brick Industry
Absorption	5 bricks	\$48.00	\$96.00	Brick Industry
Chemical Resistance	5 bricks	\$200.00	\$400.00	Brick Industry
ASTM C-370 Moisture Expansion	5 bricks	\$121.00	\$242.00	Brick Industry
ASTM C-652 Compressive Strength	5 bricks	\$55.00	\$110.00	Brick Industry
Absorption	5 bricks	\$48.00	\$96.00	Brick Industry
Freeze/Thaw	5 bricks	\$260.00	\$520.00	Brick Industry
Efflorescence	5 bricks	\$43.00	\$86.00	Brick Industry
IRA	5 bricks	\$19.00	\$38.00	Brick Industry
Void Area	10 bricks	\$16.00	\$32.00	
ASTM C-902 Compressive Strength	5 bricks	\$55.00	\$110.00	Brick Industry
Absorption	5 bricks	\$48.00	\$96.00	Brick Industry
Efflorescence	10 bricks	\$43.00	\$86.00	Brick Industry
Abrasion Index (Calculated)		\$18.00	\$36.00	Brick Industry
ASTM C-1072* Bond Wrench	7 bricks	\$212.00	\$424.00	Brick Industry
ASTM C-1314 Compressive Strength	5 bricks	\$55.00	\$110.00	Brick Industry
ASTM C-1405 Compressive Strength	5 bricks	\$55.00	\$110.00	Brick Industry
Absorptions	5 bricks	\$48.00	\$96.00	Brick Industry
Properties of Glaze	5 bricks	\$90.00	\$180.00	Brick Industry
ASTM C-1634 Concrete Facing Brick	9 samples	\$205.00	\$410.00	Brick Industry
ASTM E-514 Water Penetration plus masonry cost	600 bricks special mortar not (PCL)	\$748.00	\$1,496.00	Brick Industry

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ASTM E-518*				
Flexural Bond Strength	70 bricks	\$213.00	\$426.00	Brick Industry
Dilatometry (Air)	1 brick	\$63.00	\$126.00	Brick Industry
Dilatometry (Cryogenic)	per sample	\$150.00	\$300.00	Brick Industry
Crystalline Silica Analysis	minimum of 10 grams	\$126.00	\$152.00	Brick Industry
Mercury Porosimetry	1 brick or 100grams of raw material	\$170.00	\$340.00	Brick Industry
Hydrogen Fluoride Analysis (Dried Brick) Pyrohydrolysis Method	1 dried brick or 500g of raw material	\$114.00	\$228.00	Brick Industry
Hydrogen Fluoride & Hydrogen Chloride Analysis (Dried Brick) Pyrohydrolysis Method	1 dried brick or 500g of raw material	\$171.00	\$342.00	Brick Industry
Hydrogen Fluoride Analysis (Fired Brick) Pyrohydrolysis Method	1 fired brick	\$138.00	\$276.00	Brick Industry
Hydrogen Fluoride & Hydrogen Chloride Analysis (Fired Brick) Pyrohydrolysis Method	1 fired brick	\$196.00	\$392.00	Brick Industry
Mass Balance (Fluorides)	1 dried brick and 1 fired brick	\$254.00	\$508.00	Brick Industry
Mass Balance (Fluorides & Chlorides)	1 dried brick and 1 fired brick	\$311.00	\$622.00	Brick Industry
Total Sulfur and Carbon (LECO)	50 gram sample	\$63.00	\$126.00	Brick Industry
Mass Balance for Sulfur (LECO)	50 gram sample	\$126.00	\$252.00	Brick Industry

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ASTM-E1915				
"Pyrite,Sulfate & Inorganic Carbon Determination by Pyrohydrolysis" (LECO)	50 gram sample	\$138.00	\$276.00	Brick Industry
Thermogravimetric Analysis & Differential Scanning Calorimetry (TGA/DSC)	10 gram sample	\$252.00	\$504.00	Brick Industry
Thermogravimetric Analysis (TGA)	10 gram sample	\$126.00	\$252.00	Brick Industry
Scanning Electron Microscopy: plus consumables	per hour	\$192.00	\$384.00	Brick Industry
SEM Image Analysis: plus consumables	per sample	\$120.00	\$240.00	Brick Industry
X-Ray Diffraction, Phase Identification	20 gram sample	\$126.00	\$252.00	Brick Industry
X-Ray Diffraction, Phase Quantification	per sample	\$156.00	\$312.00	Brick Industry
X-Ray Diffraction (Bulk)	Per Hour	\$48.00	\$96.00	Academic Dept.
Total Particle Size Analysis-by Sedimentaion	1000 gram sample	\$58.00	\$116.00	Brick Industry
Total Particle Size Analysis-by Sedigraph	1000 gram sample	\$98.00	\$196.00	Brick industry
Soluble Salts test (Cations)	per sample	\$87.00	\$174.00	Brick Industry
Soluble Salts Test (Anions)	per sample	\$87.00	\$174.00	Brick Industry
Soluble Salts Test (Cations/Anions)	per sample	\$143.00	\$286.00	Brick Industry
Firing Test (<2350 F) Small Oven	per sample	\$231.00	\$462.00	Brick Industry
Firing Test (<2350 F) Large Oven	per sample	\$288.00	\$576.00	Brick Industry
Loss on Ignition (LOI)	200 grams of dry material	\$30.00	\$60.00	Brick Industry

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Gradient Testing (Sample Preparation Extra)	per sample	\$69.00	\$138.00	Brick Industry
Firing and Property Testing (Sample Preparation Extra)	per sample	\$663.00	\$1,326.00	Brick Industry
STA+FTIR (Netzsch)	per sample	\$341.00	\$682.00	Brick Industry
XRF (X-ray Florescence Spectrometer)	per sample	\$100.00	\$200.00	Brick Industry
BET Surface Area Analysis	per sample	\$125.00	\$250.00	Brick Industry
Drying Test (with Lingl Dryer)	per sample	\$126.00	\$252.00	Brick Industry
Inductiively Coupled Plasma Spectroscopy with Digestion	per sample	\$125.00	\$250.00	Brick Industry
Sample Preparation (Grinding and Crushing)	per sample	\$50.00	\$100.00	Brick Industry
Surcharge for Fax Report	per report	\$5.00	\$10.00	Brick Industry
Shipping and Handling	actual cost			

*Requires extra testing for material properties

**ASTM C67 package Test sets for Members only

Sample preparation by extrusion or processing: call ahead.

Data analysis and standard written reports will be furnished upon request, at no additional cost.