Volume 15.01, March 2007 Refractories; Activated Carbon, Advanced Ceramics

Standards and Related Materials Contained in this Volume:

<u>C16-03e1 Standard Test Method for Load Testing Refractory Shapes at High</u> Temperatures - (View Full Text)

C20-00(2005) Standard Test Methods for Apparent Porosity, Water Absorption,

Apparent Specific Gravity, and Bulk Density of Burned Refractory Brick and Shapes by Boiling Water - (View Full Text)

C24-01(2006) Standard Test Method for Pyrometric Cone Equivalent (PCE) of Fireclay and High Alumina Refractory Materials - (View Full Text)

<u>C27-98(2002) Standard Classification of Fireclay and High-Alumina Refractory Brick</u> - (View Full Text)

C71-01a Standard Terminology Relating to Refractories - (View Full Text)

C92-95(2005) Standard Test Methods for Sieve Analysis and Water Content of Refractory Materials - (View Full Text)

C108-46(2004) Standard Symbols for Heat Transmission - (View Full Text)

<u>C113-02 Standard Test Method for Reheat Change of Refractory Brick</u> - <u>(View Full Text)</u>

C133-97(2003) Standard Test Methods for Cold Crushing Strength and Modulus of Rupture of Refractories - (View Full Text)

C134-95(2005) Standard Test Methods for Size, Dimensional Measurements, and Bulk Density of Refractory Brick and Insulating Firebrick - (View Full Text)

C135-96(2003) Standard Test Method for True Specific Gravity of Refractory Materials by Water Immersion - (View Full Text)

C155-97(2002) Standard Classification of Insulating Firebrick - (View Full Text)

C179-04 Standard Test Method for Drying and Firing Linear Change of Refractory Plastic and Ramming Mix Specimens - (View Full Text)

C181-03 Standard Test Method for Workability Index of Fireclay and High-Alumina Plastic Refractories - (View Full Text)

C182-88(2004) Standard Test Method for Thermal Conductivity of Insulating Firebrick - (View Full Text)

<u>C198-02 Standard Test Method for Cold Bonding Strength of Refractory Mortar</u> - (View Full Text)

<u>C199-84(2005) Standard Test Method for Pier Test for Refractory Mortars</u> - <u>(View Full Text)</u>

<u>C201-93(2004) Standard Test Method for Thermal Conductivity of Refractories</u> - <u>(View Full Text)</u>

<u>C202-93(2004) Standard Test Method for Thermal Conductivity of Refractory Brick</u> - (View Full Text)

<u>C210-95(2005) Standard Test Method for Reheat Change of Insulating Firebrick</u> - (View Full Text)

<u>C288-87(2002) Standard Test Method for Disintegration of Refractories in an Atmosphere of Carbon Monoxide</u> - (View Full Text)

C357-94(2002)e1 Standard Test Method for Bulk Density of Granular Refractory Materials - (View Full Text)

C401-91(2005) Standard Classification of Alumina and Alumina-Silicate Castable Refractories - (View Full Text)

C416-97(2002) Standard Classification of Silica Refractory Brick - (View Full Text)

<u>C417-05 Standard Test Method for Thermal Conductivity of Unfired Monolithic</u> Refractories - (View Full Text)

<u>C454-83(2002)</u> Standard Practice for Disintegration of Carbon Refractories by Alkali - (View Full Text)

C455-97(1999) Standard Classification of Chrome Brick, Chrome-Magnesia Brick,

Magnesia-Chrome Brick, and Magnesia Brick - (View Full Text)

C456-93(2003) Standard Test Method for Hydration Resistance of Basic Bricks and Shapes - (View Full Text)

C467-97(2002) Standard Classification of Mullite Refractories - (View Full Text)

C492-92(2003) Standard Test Method for Hydration of Granular Dead-Burned

Refractory Dolomite - (View Full Text)

<u>C544-03 Standard Test Method for Hydration of Dead Burned Magnesite or Periclase</u> Grain - (View Full Text)

C545-97(2002) Standard Classification of Zircon Refractories - (View Full Text)

C577-99 Standard Test Method for Permeability of Refractories - (View Full Text)

C583-05 Standard Test Method for Modulus of Rupture of Refractory Materials at Elevated Temperatures - (View Full Text)

<u>C604-02 Standard Test Method for True Specific Gravity of Refractory Materials by</u> Gas-Comparison Pycnometer - (View Full Text)

<u>C607-88(2005)</u> Standard Practice for Coking Large Shapes of Carbon-Bearing Materials - (View Full Text)

C621-84(2001) Standard Test Method for Isothermal Corrosion Resistance of Refractories to Molten Glass - (View Full Text)

C673-97(2003) Standard Classification of Fireclay and High-Alumina Plastic

Refractories and Ramming Mixes - (View Full Text)

<u>C704-01e1 Standard Test Method for Abrasion Resistance of Refractory Materials at Room Temperature</u> - (View Full Text)

<u>C767-93(2004) Standard Test Method for Thermal Conductivity of Carbon Refractories</u> - (View Full Text)

C830-00(2006) Standard Test Methods for Apparent Porosity, Liquid Absorption,

Apparent Specific Gravity, and Bulk Density of Refractory Shapes by Vacuum Pressure - (View Full Text)

C831-98(2003) Standard Test Methods for Residual Carbon, Apparent Residual

<u>Carbon, and Apparent Carbon Yield in Coked Carbon-Containing Brick and Shapes</u> - (View Full Text)

<u>C832-00(2005) Standard Test Method of Measuring Thermal Expansion and Creep of Refractories Under Load</u> - (View Full Text)

C860-00(2005) Standard Practice for Determining the Consistency of Refractory

<u>Castable Using the Ball-In-Hand Test</u> - (View Full Text)

C861-93(2005) Standard Practice for Determining Metric Dimensions of Standard Series Refractory Brick and Shapes - (View Full Text)

<u>C862-02 Standard Practice for Preparing Refractory Concrete Specimens by Casting</u> - (View Full Text)

C863-00(2005) Standard Test Method for Evaluating Oxidation Resistance of Silicon Carbide Refractories at Elevated Temperatures - (View Full Text)

<u>C865-02 Standard Practice for Firing Refractory Concrete Specimens</u> - <u>(View Full Text)</u>

<u>C874-99(2004) Standard Practice for Rotary Slag Testing of Refractory Materials</u> - (View Full Text)

C885-87(2002) Standard Test Method for Young's Modulus of Refractory Shapes by

Sonic Resonance - (View Full Text)

C899-79(2002) Standard Practice for Use of Metric Units of Measure for Reporting Properties of Refractory Materials (COMMITTEE C-8 SUPPLEMENT TO E 380) -

(View Full Text)

C903-98(2004) Standard Practice for Preparing Refractory Castable Specimens by Cold Gunning - (View Full Text)

C909-93(2005) Standard Practice for Dimensions of a Modular Series of Refractory Brick and Shapes - (View Full Text)

C914-95(2004) Standard Test Method for Bulk Density and Volume of Solid

Refractories by Wax Immersion - (View Full Text)

C973-87(2004) Standard Practice for Preparing Test Specimens From Basic Refractory Gunning Products by Pressing - (View Full Text)

C974-87(2004) Standard Practice for Preparing Test Specimens from Basic Refractory

Castable Products by Casting - (View Full Text)

C975-87(2004) Standard Practice for Preparing Test Specimens from Basic Refractory Ramming Products by Pressing - (View Full Text)

<u>C987-00a(2005)</u> Standard Practice for Vapor Attack on Refractories for Furnace Superstructures - (View Full Text)

C1054-03 Standard Practice for Pressing and Drying Refractory Plastic and Ramming Mix Specimens - (View Full Text)

C1099-92(2002) Standard Test Method for Modulus of Rupture of Carbon-Containing Refractory Materials at Elevated Temperatures - (View Full Text)

C1113-99(2004) Standard Test Method for Thermal Conductivity of Refractories by

<u>Hot Wire (Platinum Resistance Thermometer Technique)</u> - <u>(View Full Text)</u>

C1145-06 Standard Terminology of Advanced Ceramics - (View Full Text)

<u>C1161-02ce1 Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature</u> - (View Full Text)

C1171-05 Standard Test Method for Quantitatively Measuring the Effect of Thermal Shock and Thermal Cycling on Refractories - (View Full Text)

<u>C1175-99a(2004) Standard Guide to Test Methods and Standards for Nondestructive Testing of Advanced Ceramics</u> - (View Full Text)

C1190-95(2005) Standard Practice for Location of Test Specimens from Magnesia-Carbon and Impregnated Burned Basic Brick - (View Full Text)

C1198-01 Standard Test Method for Dynamic Young's Modulus, Shear Modulus, and

<u>Poisson's Ratio for Advanced Ceramics by Sonic Resonance</u> - (View Full Text)

<u>C1211-02 Standard Test Method for Flexural Strength of Advanced Ceramics at Elevated Temperatures</u> - (View Full Text)

C1212-98(2004) Standard Practice for Fabricating Ceramic Reference Specimens Containing Seeded Voids - (View Full Text)

C1223-92(2003) Standard Test Method for Testing of Glass Exudation from AZS Fusion-Cast Refractories - (View Full Text)

C1239-06a Standard Practice for Reporting Uniaxial Strength Data and Estimating

Weibull Distribution Parameters for Advanced Ceramics - (View Full Text)

C1259-01 Standard Test Method for Dynamic Young's Modulus, Shear Modulus, and Poisson's Ratio for Advanced Ceramics by Impulse Excitation of Vibration - (View Full Text)

C1273-05 Standard Test Method for Tensile Strength of Monolithic Advanced Ceramics at Ambient Temperatures - (View Full Text)

C1274-00(2006) Standard Test Method for Advanced Ceramic Specific Surface Area by Physical Adsorption - (View Full Text)

```
C1275-00(2005)e1 Standard Test Method for Monotonic Tensile Behavior of
Continuous Fiber-Reinforced Advanced Ceramics with Solid Rectangular Cross-Section
Test Specimens at Ambient Temperature - (View Full Text)
C1276-94(2005) Standard Test Method for Measuring the Viscosity of Mold Powders
Above Their Melting Point Using a Rotational Viscometer - (View Full Text)
C1282-00(2006) Standard Test Method for Determining the Particle Size Distribution
of Advanced Ceramics by Centrifugal Photosedimentation - (View Full Text)
C1291-00a(2005) Standard Test Method for Elevated Temperature Tensile Creep
Strain, Creep Strain Rate, and Creep Time-to-Failure for Advanced Monolithic
Ceramics - (View Full Text)
C1292-00(2005) Standard Test Method for Shear Strength of Continuous Fiber-
Reinforced Advanced Ceramics at Ambient Temperatures - (View Full Text)
C1322-05b Standard Practice for Fractography and Characterization of Fracture Origins
in Advanced Ceramics - (View Full Text)
C1323-96(2001) Standard Test Method for Ultimate Strength of Advanced Ceramics
with Diametrally Compressed C-Ring Specimens at Ambient Temperature - (View Full
Text)
C1326-03 Standard Test Method for Knoop Indentation Hardness of Advanced
Ceramics - (View Full Text)
C1327-03 Standard Test Method for Vickers Indentation Hardness of Advanced
Ceramics - (View Full Text)
C1331-01 Standard Test Method for Measuring Ultrasonic Velocity in Advanced
Ceramics with Broadband Pulse-Echo Cross-Correlation Method - (View Full Text)
C1332-01 Standard Test Method for Measurement of Ultrasonic Attenuation
Coefficients of Advanced Ceramics by Pulse-Echo Contact Technique - (View Full
C1336-96(2002) Standard Practice for Fabricating Non-Oxide Ceramic Reference
Specimens Containing Seeded Inclusions - (View Full Text)
C1337-96(2005) Standard Test Method for Creep and Creep Rupture of Continuous
Fiber-Reinforced Ceramic Composites under Tensile Loading at Elevated Temperatures
- (View Full Text)
C1341-06 Standard Test Method for Flexural Properties of Continuous Fiber-
Reinforced Advanced Ceramic Composites - (View Full Text)
C1358-05 Standard Test Method for Monotonic Compressive Strength Testing of
Continuous Fiber-Reinforced Advanced Ceramics with Solid Rectangular Cross-Section
Test Specimens at Ambient Temperatures - (View Full Text)
C1359-05 Standard Test Method for Monotonic Tensile Strength Testing of Continuous
Fiber-Reinforced Advanced Ceramics With Solid Rectangular Cross-Section Test
Specimens at Elevated Temperatures - (View Full Text)
C1360-01 Standard Practice for Constant-Amplitude, Axial, Tension-Tension Cyclic
Fatigue of Continuous Fiber-Reinforced Advanced Ceramics at Ambient Temperatures
- (View Full Text)
C1361-01 Standard Practice for Constant-Amplitude, Axial, Tension-Tension Cyclic
Fatigue of Advanced Ceramics at Ambient Temperatures - (View Full Text)
C1366-04 Standard Test Method for Tensile Strength of Monolithic Advanced
Ceramics at Elevated Temperatures - (View Full Text)
C1368-06 Standard Test Method for Determination of Slow Crack Growth Parameters
```

of Advanced Ceramics by Constant Stress-Rate Flexural Testing at Ambient

C1407-98(2005) Standard Practice for Calculating Areas, Volume, and Linear Change

Temperature - (View Full Text)

- of Refractory Shapes (View Full Text)
- C1419-99a Standard Test Method for Sonic Velocity in Refractory Materials at Room Temperature and Its Use in Obtaining an Approximate Young's Modulus (View Full Text)
- C1421-01b Standard Test Methods for Determination of Fracture Toughness of Advanced Ceramics at Ambient Temperature (View Full Text)
- C1424-04 Standard Test Method for Monotonic Compressive Strength of Advanced Ceramics at Ambient Temperature (View Full Text)
- C1425-05 Standard Test Method for Interlaminar Shear Strength of 1-D and 2-D Continuous Fiber-Reinforced Advanced Ceramics at Elevated Temperatures (View Full Text)
- <u>C1445-99(2005)</u> Standard Test Method for Measuring Consistency of Castable Refractory Using a Flow Table (View Full Text)
- C1446-99 Standard Test Method for Measuring Consistency and Working Time of Self-Flowing Castable Refractories (View Full Text)
- C1465-00(2006) Standard Test Method for Determination of Slow Crack Growth
 Parameters of Advanced Ceramics by Constant Stress-Rate Flexural Testing at Elevated
 Temperatures (View Full Text)
- C1468-06 Standard Test Method for Transthickness Tensile Strength of Continuous Fiber-Reinforced Advanced Ceramics at Ambient Temperature (View Full Text) C1469-00(2005) Standard Test Method for Shear Strength of Joints of Advanced Ceramics at Ambient Temperature (View Full Text)
- <u>C1470-06 Standard Guide for Testing the Thermal Properties of Advanced Ceramics</u> (View Full Text)
- C1494-01 Standard Test Methods for Determination of Mass Fraction of Carbon,
- Nitrogen, and Oxygen in Silicon Nitride Powder (View Full Text)
 C1495-07 Standard Test Method for Effect of Surface Grinding on Flexure Strength of
- Advanced Ceramics (View Full Text)
- C1499-05 Standard Test Method for Monotonic Equibiaxial Flexural Strength of Advanced Ceramics at Ambient Temperature (View Full Text)
- C1525-04 Standard Test Method for Determination of Thermal Shock Resistance for Advanced Ceramics by Water Quenching (View Full Text)
- <u>C1547-02 Standard Classification for Fusion-Cast Refractory Blocks and Shapes (View Full Text)</u>
- C1548-02 Standard Test Method for Dynamic Young's Modulus, Shear Modulus, and Poisson's Ratio of Refractory Materials by Impulse Excitation of Vibration (View Full Text)
- <u>C1557-03e1 Standard Test Method for Tensile Strength and Young's Modulus of Fibers</u> (View Full Text)
- C1576-05 Standard Test Method for Determination of Slow Crack Growth Parameters of Advanced Ceramics by Constant Stress Flexural Testing (Stress Rupture) at Ambient Temperature (View Full Text)
- C1624-05 Standard Test Method for Adhesion Strength and Mechanical Failure Modes of Ceramic Coatings by Quantitative Single Point Scratch Testing (View Full Text)
 C1655-06 Standard Classification of Fireclay and High-Alumina Mortars (View Full Text)
- <u>D2652-05a Standard Terminology Relating to Activated Carbon</u> <u>(View Full Text)</u> <u>D2854-96(2004) Standard Test Method for Apparent Density of Activated Carbon</u> (View Full Text)
- D2862-97(2004) Standard Test Method for Particle Size Distribution of Granular

Activated Carbon - (View Full Text)

<u>D2866-94(2004) Standard Test Method for Total Ash Content of Activated Carbon</u> - (View Full Text)

D2867-04 Standard Test Methods for Moisture in Activated Carbon - (View Full Text)

D3466-06 Standard Test Method for Ignition Temperature of Granular Activated

<u>Carbon</u> - <u>(View Full Text)</u>

D3467-04 Standard Test Method for Carbon Tetrachloride Activity of Activated Carbon - (View Full Text)

<u>D3802-79(2005)</u> Standard Test Method for Ball-Pan Hardness of Activated Carbon - (View Full Text)

<u>D3803-91(2004)</u> Standard Test Method for Nuclear-Grade Activated Carbon - (View Full Text)

D3838-05 Standard Test Method for pH of Activated Carbon - (View Full Text)

D3860-98(2003) Standard Practice for Determination of Adsorptive Capacity of

<u>Activated Carbon by Aqueous Phase Isotherm Technique</u> - (View Full Text)

D4069-95(2003) Standard Specification for Impregnated Activated Carbon Used to

Remove Gaseous Radio-Iodines from Gas Streams - (View Full Text)

<u>D4607-94(2006)</u> Standard Test Method for Determination of Iodine Number of Activated Carbon - (View Full Text)

<u>D5029-98(2004)</u> Standard Test Method for Water Solubles in Activated Carbon - (View Full Text)

<u>D5158-98(2005)</u> Standard Test Method for Determination of Particle Size of Powdered Activated Carbon by Air Jet Sieving - (View Full Text)

<u>D5159-04 Standard Guide for Dusting Attrition of Granular Activated Carbon</u> - <u>(View Full Text)</u>

<u>D5160-95(2003)</u> Standard Guide for Gas-Phase Adsorption Testing of Activated <u>Carbon</u> - (View Full Text)

<u>D5228-92(2005)</u> Standard Test Method for Determination of Butane Working Capacity of Activated Carbon - (View Full Text)

<u>D5742-95(2005) Standard Test Method for Determination of Butane Activity of</u> Activated Carbon - (View Full Text)

<u>D5832-98(2003)</u> Standard Test Method for Volatile Matter Content of Activated Carbon Samples - (View Full Text)

D5919-96(2006) Standard Practice for Determination of Adsorptive Capacity of

Activated Carbon by a Micro-Isotherm Technique for Adsorbates at ppb Concentrations - (View Full Text)

<u>D6385-99(2006)</u> Standard Test Method for Determining Acid Extractable Content in Activated Carbon by Ashing - (View Full Text)

D6586-03 Standard Practice for the Prediction of Contaminant Adsorption On GAC In

<u>Aqueous Systems Using Rapid Small-Scale Column Tests</u> - (View Full Text)

D6646-03 Standard Test Method for Determination of the Accelerated Hydrogen

<u>Sulfide Breakthrough Capacity of Granular and Pelletized Activated Carbon</u> - (View Full Text)

<u>D6647-01(2006)</u> Standard Test Method for Determination of Acid Soluble Iron Via Atomic Absorption - (View Full Text)

D6781-02 Standard Guide for Carbon Reactivation - (View Full Text)

<u>D6851-02 Standard Test Method for Determination of Contact pH with Activated Carbon - (View Full Text)</u>

SI Quick Reference Guide: International System of Units (SI) - *The Modern Metric System* - (View Full Text)

Withdrawn Standards

C768 Standard Practice for Drip Slag Testing Refractory Materials at High Temperature (Withdrawn 2004) No Replacement

C1100 Standard Test Method for Ribbon Thermal Shock Testing of Refractory Materials (Withdrawn 2005) No Replacement

C1286 Standard Classification for Advanced Ceramics (Withdrawn 2002) No Replacement

C1444 Standard Test Method for Measuring the Angle of Repose of Free-Flowing Mold Powders (Withdrawn 2005) No Replacement

D3379 Standard Test Method for Tensile Strength and Young's Modulus for High-Modulus Single-Filament Materials (Withdrawn 1998) No Replacement