

# ASTM Volume 05.05, February 2014

## Combustion Characteristics; Manufactured Carbon and Graphite Products; Catalysts

### Table of Contents

- C515-13 Standard Specification for Chemical-Resistant Ceramic Tower Packings
- C559-90(2010) Standard Test Method for Bulk Density by Physical Measurements of Manufactured Carbon and Graphite Articles
- C560-88(2010)e1 Standard Test Methods for Chemical Analysis of Graphite
- C561-91(2010)e1 Standard Test Method for Ash in a Graphite Sample
- C562-91(2010)e1 Standard Test Method for Moisture in a Graphite Sample
- C565-93(2010)e1 Standard Test Methods for Tension Testing of Carbon and Graphite Mechanical Materials
- C611-98(2010)e1 Standard Test Method for Electrical Resistivity of Manufactured Carbon and Graphite Articles at Room Temperature
- C625-95(2010) Standard Practice for Reporting Irradiation Results on Graphite
- C651-13 Standard Test Method for Flexural Strength of Manufactured Carbon and Graphite Articles Using Four-Point Loading at Room Temperature
- C662-70(2010) Standard Specification for Impervious Graphite Pipe and Threading
- C695-91(2010) Standard Test Method for Compressive Strength of Carbon and Graphite
- C709-09 Standard Terminology Relating to Manufactured Carbon and Graphite
- C714-05(2010) Standard Test Method for Thermal Diffusivity of Carbon and Graphite by Thermal Pulse Method
- C747-93(2010)e1 Standard Test Method for Moduli of Elasticity and Fundamental Frequencies of Carbon and Graphite Materials by Sonic Resonance
- C748-98(2010)e1 Standard Test Method for Rockwell Hardness of Graphite Materials
- C749-13 Standard Test Method for Tensile Stress-Strain of Carbon and Graphite
- C769-09 Standard Test Method for Sonic Velocity in Manufactured Carbon and Graphite Materials for Use in Obtaining Young's Modulus
- C781-08 Standard Practice for Testing Graphite and Boronated Graphite Materials for High-Temperature Gas-Cooled Nuclear Reactor Components
- C783-05(2010)e1 Standard Practice for Core Sampling of Graphite Electrodes
- C808-75(2010)e1 Standard Guideline for Reporting Friction and Wear Test Results of Manufactured Carbon and Graphite Bearing and Seal Materials
- C816-85(2010)e1 Standard Test Method for Sulfur in Graphite by Combustion-Iodometric Titration Method
- C838-96(2010)e1 Standard Test Method for Bulk Density of As-Manufactured Carbon and Graphite Shapes

C886-98(2010)e1 Standard Test Method for Scleroscope Hardness Testing of Carbon and Graphite Materials

C1025-91(2010)e1 Standard Test Method for Modulus of Rupture in Bending of Electrode Graphite

C1039-85(2010)e1 Standard Test Methods for Apparent Porosity, Apparent Specific Gravity, and Bulk Density of Graphite Electrodes

C1179-91(2010)e1 Standard Test Method for Oxidation Mass Loss of Manufactured Carbon and Graphite Materials in Air

D613-13 Standard Test Method for Cetane Number of Diesel Fuel Oil

D909-07(2012)e1 Standard Test Method for Supercharge Rating of Spark-Ignition Aviation Gasoline

D1977-03(2008) Standard Test Method for Nickel and Vanadium in FCC Equilibrium Catalysts by Hydrofluoric/Sulfuric Acid Decomposition and Atomic Spectroscopic Analysis

D2699-13b Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel

D2700-13b Standard Test Method for Motor Octane Number of Spark-Ignition Engine Fuel

D2885-13 Standard Test Method for Determination of Octane Number of Spark-Ignition Engine Fuels by On-Line Direct Comparison Technique

D3610-00(2010) Standard Test Method for Total Cobalt In Alumina-Based Cobalt Molybdenum Catalyst by Potentiometric Titration Method

D3663-03(2008) Standard Test Method for Surface Area of Catalysts and Catalyst Carriers

D3766-08(2013) Standard Terminology Relating to Catalysts and Catalysis

D3906-03(2013) Standard Test Method for Determination of Relative X-ray Diffraction Intensities of Faujasite-Type Zeolite-Containing Materials

D3907/D3907M-13 Standard Test Method for Testing Fluid Catalytic Cracking (FCC) Catalysts by Microactivity Test

D3908-03(2008) Standard Test Method for Hydrogen Chemisorption on Supported Platinum Catalysts by Volumetric Vacuum Method

D3942-03(2013) Standard Test Method for Determination of the Unit Cell Dimension of a Faujasite-Type Zeolite

D3943-10 Standard Test Method for Total Molybdenum in Fresh Alumina-Base Catalysts

D4058-96(2011)e1 Standard Test Method for Attrition and Abrasion of Catalysts and Catalyst Carriers

D4164-13 Standard Test Method for Mechanically Tapped Packing Density of Formed Catalyst and Catalyst Carriers

D4179-11 Standard Test Method for Single Pellet Crush Strength of Formed Catalysts and Catalyst Carriers

D4180-13 Standard Test Method for Vibratory Packing Density of Formed Catalyst Particles and Catalyst Carriers

D4222-03(2008) Standard Test Method for Determination of Nitrogen Adsorption and Desorption Isotherms of Catalysts and Catalyst Carriers by Static Volumetric Measurements

D4264-12 Standard Test Method for Determining Pore Volume Distribution of Catalysts and Catalyst Carriers by Mercury Intrusion Porosimetry

D4365-13 Standard Test Method for Determining Micropore Volume and Zeolite Area of a Catalyst

D4438-13 Standard Test Method for Particle Size Distribution of Catalysts and Catalyst Carriers by Electronic Counting

D4463/D4463M-96(2013)e1 Standard Guide for Metals Free Steam Deactivation of Fresh Fluid Cracking Catalysts

D4464-10 Standard Test Method for Particle Size Distribution of Catalytic Material by Laser Light Scattering

D4481-10 Standard Test Method for Total Nickel in Fresh Alumina-Base Catalysts

D4512-03(2013)e1 Standard Test Method for Vibrated Apparent Packing Density of Fine Catalyst and Catalyst Carrier Particles and Powder

D4513-11 Standard Test Method for Particle Size Distribution of Catalytic Materials by Sieving

D4567-03(2013) Standard Test Method for Single-Point Determination of Specific Surface Area of Catalysts and Catalyst Carriers Using Nitrogen Adsorption by Continuous Flow Method

D4641-12 Standard Practice for Calculation of Pore Size Distributions of Catalysts and Catalyst Carriers from Nitrogen Desorption Isotherms

D4642-04(2010) Standard Test Method for Platinum in Reforming Catalysts by Wet Chemistry

D4699-03(2013) Standard Test Method for Vibratory Packing Density of Large Formed Catalyst and Catalyst Carrier Particles

D4780-12 Standard Test Method for Determination of Low Surface Area of Catalysts and Catalyst Carriers by Multipoint Krypton Adsorption

D4781-03(2013) Standard Test Method for Mechanically Tapped Packing Density of Fine Catalyst Particles and Catalyst Carrier Particles

D4782-10 Standard Test Method for Palladium in Molecular Sieve Catalyst by Wet Chemistry

D4824-13 Standard Test Method for Determination of Catalyst Acidity by Ammonia Chemisorption

D4926-06(2011) Standard Test Method for Gamma Alumina Content in Catalysts Containing Silica and Alumina by X-ray Powder Diffraction

D5153-10 Standard Test Method for Palladium in Molecular Sieve Catalyst by Atomic Absorption

D5154-10 Standard Test Method for Determining Activity and Selectivity of Fluid Catalytic Cracking (FCC) Catalysts by Microactivity Test

D5357-03(2013) Standard Test Method for Determination of Relative Crystallinity of Zeolite Sodium A by X-ray Diffraction

D5757-11 Standard Test Method for Determination of Attrition and Abrasion of Powdered Catalysts by Air Jets

D5758-01(2011)e1 Standard Test Method for Determination of Relative Crystallinity of Zeolite ZSM-5 by X-Ray Diffraction

D6175-03(2013) Standard Test Method for Radial Crush Strength of Extruded Catalyst and Catalyst Carrier Particles

D6761-07(2012) Standard Test Method for Determination of the Total Pore Volume of Catalysts and Catalyst Carriers

D6800-03b Standard Test Method for Determination of Ignition Delay and Derived Cetane Number (DCN) of Diesel Fuel Oils by Combustion in a Constant Volume Chamber

D7084-04(2009) Standard Test Method for Determination of Bulk Crush Strength of Catalysts and Catalyst Carriers

D7085-04(2010)e1 Standard Guide for Determination of Chemical Elements in Fluid Catalytic Cracking Catalysts by X-ray Fluorescence Spectrometry (XRF)

D7170-12a Standard Test Method for Determination of Derived Cetane Number (DCN) of Diesel Fuel Oils—Fixed Range Injection Period, Constant Volume Combustion Chamber Method

D7206/D7206M-06(2013)e1 Standard Guide for Cyclic Deactivation of Fluid Catalytic Cracking (FCC) Catalysts with Metals

D7219-08 Standard Specification for Isotropic and Near-isotropic Nuclear Graphites

D7301-11 Standard Specification for Nuclear Graphite Suitable for Components Subjected to Low Neutron Irradiation Dose

D7442-08a Standard Practice for Sample Preparation of Fluid Catalytic Cracking Catalysts and Zeolites for Elemental Analysis by Inductively Coupled Plasma Atomic Emission Spectroscopy

D7542-09 Standard Test Method for Air Oxidation of Carbon and Graphite in the Kinetic Regime

D7668-12a Standard Test Method for Determination of Derived Cetane Number (DCN) of Diesel Fuel Oils—Ignition Delay and Combustion Delay Using a Constant Volume Combustion Chamber Method

D7775-11e1 Standard Guide for Measurements on Small Graphite Specimens

D7779-11 Standard Test Method for Determination of Fracture Toughness of Graphite at Ambient Temperature

Currently in preview, click buy full version