



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

SGS MINERAL SERVICES SOUTH HOLLAND
South Holland, IL

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).



Presented this 19th day of May 2009.

Peter Abney

President

For the Accreditation Council

Certificate Number 2537.01

Valid to February 28, 2011

For the tests or types of tests to which this accreditation applies,
please refer to the laboratory's Chemical Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SGS MINERAL SERVICES SOUTH HOLLAND¹

16130 Van Drunen Road
South Holland, IL 60473
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CHEMICAL

Valid To: February 28, 2011

Certificate Number: 2537.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on coal and coke products:

Test:

Test Methods:

Physical Properties:

Gross Calorific Value of Coal and Coke	ASTM D5865
Solid Biofuels – Method for the Determination of Calorific Value	DD CEN/TS 14918
Hardgrove Grindability	ASTM D409
Moisture in Coal and Coke	ASTM D3173
Solid Biofuels – Methods for the Determination of Moisture Content	DD CEN/TS 14774
Volatile Matter in Coal and Coke	ASTM D3175
Solid Biofuels - Methods for the Determination of Volatile Matter	DD CEN/TS 15148
Proximate Analysis of Coal and Coke by Instrumental Procedures	ASTM D5142
Determination of Ash in Coal and Coke	ASTM D3174
Solid Biofuels - Methods for the Determination of Ash Content	DD CEN/TS 14775
Fusibility of Coal and Coke Ash	ASTM D1857

Chemical Properties:

Total Sulfur by Combustion/IR Detection	ASTM D4239 (Method B)
Determination of C, H, and N in Coal and Coke	ASTM D5373
Solid Biofuels - Determination of Total Content of C, H, and N – Instrumental Methods	DD CEN/TS 15104

Test:

Test Methods:

Chemical Properties (cont.):

Determination of Total Chlorine by Oxygen Bomb/Selective Electrode	ASTM D4208
Determination of Total Fluorine in Coal by Oxygen Bomb/Selective Electrode	ASTM D3761
Analysis of Combustion Residues from Coal Utilization Processes by AAS (SiO ₂ , Al ₂ O ₃ , TiO ₂ , Fe ₂ O ₃ , CaO, MgO, K ₂ O, Na ₂ O)	ASTM D3682
Forms of Sulfur in Coal	ASTM D2492

Other:

Preparing Coal Samples for Analysis	ASTM D2013
Solid Biofuels – Methods for Sample Preparation	DD CEN/TS 14780

SGS Mineral Services
3210 Watling
East Chicago, IN 46312

Test:

Test Methods:

Physical Properties:

Cubic Foot Weight of Crushed Bituminous Coal *	ASTM D291 (Method B)
Coke Reactivity Index and Coke Strength after Reaction	ASTM D5341
Tumbler Test for Coke	ASTM D3402

*This method is applied to Coke product per customer request. Box filled with Coke using shovel and then leveled using straight edge.

¹ This accreditation covers testing performed at the main laboratory listed above, and at the satellite laboratory indicated.