



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Standard Laboratories, Inc. – Division 75
8451 River King Drive
Freeburg, IL 62243

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to be 'Jason Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 08 July 2025

Certificate Number: L2179.02-1



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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 April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Standard Laboratories, Inc. – Division 75

8451 River King Drive
Freeburg, IL 62243
Tim Hutchison
618-539-5836

TESTING

Valid to: **July 8, 2025**

Certificate Number: **L2179.02-1**

Chemical

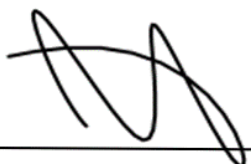
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Grindability of Coal	ASTM D409 ASTM D409M	Coal	Hardgrove Method
Free- Swell Index	ASTM D720	Coal	Gas Method
Equilibrium Moisture	ASTM D1412	Coal	Thermo-gravimetric
Single Stage Total Moisture	ASTM D2961	Coal	Thermo-gravimetric
Moisture in the Analysis Sample	ASTM D3173	Coal and Coke	Thermo-gravimetric
Total Moisture	ASTM D3302 ASTM D3302M	Coal	Thermo-gravimetric
Forms of Sulfur in Coal	ASTM D8214 MOD	Coal	ICP-OES
Sulfur Determination	ASTM D4239	Coal and Coke	High-Temperature Tube Furnace Combustion
Fusibility	ASTM D1857	Coal and Coke ash	Fusion Furnace
Sample Preparation	ASTM D2013 ASTM D2013M	Coal	Crusher, pulverizers, dividers
Ash in the Analysis Sample	ASTM D3174	Coal and Coke	Thermo-gravimetric
Volatile Matter	ASTM D3175	Coal and Coke	Thermo-gravimetric
Selenium Determination	ASTM D4606 MOD	Coal	Hydride Generation / ICP-OES
Carbon, Hydrogen and Nitrogen Determination	ASTM D5373	Coal and Coke	CHN Analyzer
Gross Calorific Value	ASTM D5865	Coal and Coke	Calorimetry

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Total Fluorine Determination	ASTM D8247	Coal	Oxidative Pyrohydrolytic Combustion and Ion Chromatography Detection
Determination of Major & Minor Elements ICP-OES	ASTM D6349	Coal and Coke	ICP-OES
Determination of Trace Elements ICP-MS	ASTM D6357 ASTM D6357 MOD	Coal and Coke	ICP-MS
Chlorine Determination	ASTM D6721	Coal	Oxidative Hydrolysis Microcoulometry
Total Mercury	ASTM D6722	Coal	Direct Combustion Analysis
Water Soluble Alkali Content	ASTM D8010	Coal	ICP-OES
Total, Combustible, and Carbonate Carbon	ASTM D6316 MOD	Coal Residue	CHN Analyzer
Determination of Boron	ASTM D8213	Coal	Microwave and ICP-MS

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2179.02-1



Jason Stine, Vice President