



# Certificate of Accreditation: Supplement

**Conti Testing Laboratories, Inc.**  
 3190 Industrial Boulevard, Bethel Park, PA 15102  
 Contact Name: Patricia Otroba Phone: 412-833-7766

*Accreditation is granted to the facility to perform the following testing:*

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT	
Chemical <sup>F</sup>	Coal, Coke, Oil, Alternative Fuels, Minerals, Soil/Rock, Limestone, Petroleum Products (Solid/Liquid)	Determination of Total Sulfur for Organic or Inorganic Matrices	ASTM D4239	0.01 % wt to 10 % wt	
		Determination of Carbon, Hydrogen and Nitrogen	ASTM D5373	Carbon: 0.01 % wt to 99 % wt	
				Hydrogen: 0.01 % wt to 10 % wt	
	Alternative Fuels, Coals, Coke, Petcoke (Solids)	Determination of Ash Content	ASTM D3174 ASTM D442	0.01 % wt to 100 % wt	
					Coal (Solid)
	Coal (Solid)	Coal (Solid)	Determination of Free Swelling of Coal	ASTM D720	0 FSI to 9 FSI
			Determination of Plastic Properties in Coal	ASTM D2639	Maximum: 2 DDPM to 180 000 DDPM  Max Fluid Temp: 410 °C to 480 °C  Initial Soft Temp: 360 °C to 450 °C  Solid Temp: 370 °C to 510 °C
			Determination of Bulk Density; Cubic Foot Weight of Crushed Bituminous Coal	ASTM D2691	20 lb·ft <sup>3</sup> to 100 lb·ft <sup>3</sup>
			Standard Practice for Collection of a Gross Sample of Coal	ASTM D2234	N/A



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Chemical <sup>F</sup>	Coal (Solid)	Determination of Swelling Properties of Bituminous Coal	ASTM D5515	%D <sub>2.50</sub> -% Dilatation 2.50 g 100 % to 200 %  T1 - Initial Soft 360 °C to 440 °C  T2 – Max Contraction Temp 415 °C to 475 °C  T3 - Max Dilatation Temp 465 °C to 495 °C
	Coal, Coke, Alternative Fuels (Solids)	Determination of Volatile Matter	ASTM D3175	0.05 % wt to 100 % wt
	Any Solid Material	Determination of Percent Residual Moisture	ASTM D3173	0.01 % wt to 100 % wt
		Single Stage Moisture	ASTM D2961	0.01 % wt to 100 % wt
	Oils, Grease, Fuel, Lubricants (Liquid)	Determination of Ash for Petroleum Products	ASTM D482	0.01 % wt to 99.99 % wt
	Coal, Coke, Alternative Fuels, Water (Solid/Liquids)	Determination of Chloride by Ion Specific Electrode	ASTM D4208	80 mg/kg to 10 000 mg/kg
	Coal, Coke, Mineral, Ores, Paint Chips (Solids)	Solid Sample Digestion	ASTM C1301 ASTM D5600 ASTM D6349 ASTM D6357 EPA SW-846 3050B	N/A
		Coal, Coke, Oil, Alternative Fuels, Petroleum Products, Waster Water (Solid/Liquid)	Parr Bomb Preparation for the Determination of Anions	
		Determination of Gross Calorific Value	ASTM D5865	50 BTU/lb to 16 000 BTU/lb



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Chemical <sup>F</sup>	Coke (Solid)	Sieve Analysis of Coke	ASTM D293	Weight percent of gross samples to the nearest 0.1 % Sizes from 4 in to 400 in mesh
		Sieve Analysis of Size Designation of Coal	ASTM D4749	
		Test Method for Measuring Coke Reactivity Index (CRI) and Coke Strength after Reaction (CSR)	ASTM D5341	CRI: 18% wt to 31% wt CSR: 55% wt to 72% wt
		Tumbler Test for Coke	ASTM D3402	Hardness: 40 % wt to 75 % wt Stability: 40 % wt to 65 % wt
	Almost any Solid or Liquid Matrix	Determination of Mercury in Solids, Liquids and Solutions by Thermal Decomposition	EPA SW-876 7473 ASTM D6722	0.01 ppm to 5 ppm
Tar and Pitch (Solid and Liquid)	Determination of Quinoline-Insoluble Content	ASTM D2318	0.01 % wt to 20 % wt	
Coal and Coke (Solids)	Determination of Trace Elements by Inductively Coupled Plasma Optical Emission Spectroscopy	EPA SW-846 6010D ASTM D6357	LOQ of 0.10 ppm for: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Tl, V, Zn  LOQ of 1.00 ppm for: B, Na, P  LOQ of 2.00 ppm for: Ca, K, Si	



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**Conti Testing Laboratories, Inc.**  
 3190 Industrial Boulevard, Bethel Park, PA 15102  
 Contact Name: Ashley Dewar Phone: 412-833-7766

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Chemical <sup>F</sup>	Coal and Coke (Solids)	Determination of Major and Minor Elements (as Oxides)	ASTM D6349	SiO <sub>2</sub> - 0.02 wt % to 75.00 wt % Al <sub>2</sub> O <sub>3</sub> - 0.01 wt % to 35.00 wt % Fe <sub>2</sub> O <sub>3</sub> - 0.01 wt % to 50.00 wt % CaO - 0.01 wt % to 50.00 wt % MgO - 0.01 wt % to 10.00 wt % TiO <sub>2</sub> - 0.06 wt % to 5.00 wt % SO <sub>3</sub> - 0.12 wt % to 10.00 wt % Na <sub>2</sub> O - 0.01 wt % to 5.00 wt % K <sub>2</sub> O - 0.01 wt % to 5.00 wt % BaO - 0.01 wt % to 2.00 wt % MnO <sub>2</sub> - 0.01 wt % to 2.00 wt % SrO - 0.01 wt % to 2.00 wt % P <sub>2</sub> O <sub>5</sub> - 0.01 wt % to 2.00 wt % V <sub>2</sub> O <sub>5</sub> - 0.01 wt % to 5.00 wt % NiO - 0.01 wt % to 5.00 wt % Cr <sub>2</sub> O <sub>3</sub> - 0.01 wt % to 2.00 wt % ZnO - 0.01 wt % to 2.00 wt % MoO <sub>3</sub> - 0.01 wt % to 2.00 wt % CuO - 0.01 wt % to 2.00 wt % CoO - 0.01 wt % to 2.00 wt %
		Preparation of Coal & Coke Samples for Analysis	ASTM D2013	N/A
		Hardgrove Grindability Index of Coal and Coke	ASTM D409 ASTM D5003	35 HGI to 100 HGI
	Combustion Residues Hydrated Lime Quick Lime	Loss on Ignition of Solid Combustion Residues	ASTM D7348 ASTM C25 AASHTO T219	0 % wt to 100 % wt
	Wood Fiber	Sieve Analysis of Engineered Wood Fiber	ASTM F2075	Weight percent of gross samples to the nearest are 0.1% Sizes are 0.75 in, 0.375 in And No. 16 mesh

- The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer <sup>F</sup> would mean that the laboratory performs this testing at its fixed location.