

## Coal, Coke and Solid Fuels

### **Proximate Analysis of Coal and Coke, ASTM D 5142 Instrumental Method**

| Test Code     | Description   |
|---------------|---|
| ASTM D 5142.a | Proximate Analysis of Coal and Coke, Instrumental - Package |

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### **Proximate Analysis of Coal and Coke, ASTM D 3172 Referee Method**

| Test Code     | Description   |
|---------------|---|
| ASTM D 3173   | Moisture in the Analysis Sample of Coal and Coke        |
| ASTM D 3175   | Volatile Matter in the Analysis Sample of Coal and Coke |
| ASTM D 3174.a | Ash in the Analysis Sample of Coal and Coke, wt%        |
| ASTM D 3174.b | Fixed Carbon  |

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### **Ultimate (Elemental) Analysis of Coal and Coke, ASTM D 3176**

| Test Code   | Description   |
|-------------|---|
| ASTM D 5373 | Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Laboratory Sample of<br><br>Coal and Coke |
| ASTM D 3173 | Moisture (as-received basis)  |

|               |   |
|---------------|---|
| ASTM D 3177   | Sulfur, Total, in the Analysis Sample of Coal and Coke                  |
| ASTM D 3174.a | Ash in the Analysis Sample of Coal and Coke, wt%                        |
| Calculated.1  | Oxygen, calculated. (No direct method in ASTM tests for oxygen in coal) |

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#### **Additional Tests**

|               |  |
|---------------|--|
| ASTM D 3178   | Carbon and Hydrogen in the Analysis Sample of Coal and Coke                            |
| ASTM D 3179   | Nitrogen in the Analysis Sample of Coal and Coke                                       |
| ASTM D 4239   | Sulfur Analysis in Coal and Coke Using High Temperature Tube Furnace Combustion        |
| ASTM D 3683.b | Trace Elements in Coal and Coke Ash by Atomic Absorption                               |
| ASTM D 6357   | Trace Elements in Coal, Coke, and Combustion Residues by ICP-AES, ICP-MS,<br>and GFAA. |