



Common Coal and Coke Packages

MABS / Short Proximate (Moisture, Ash, BTU, Sulfur) *ASTM D3173, D3174, D5865, D4239*
ASTM Proximate (Moisture, Ash, Volatile/Fixed Carbon, Sulfur) *Volatile - D3175*
MAV / TGA package *D7582*
Combo Proximate (Moisture, Ash, Btu, Vol/FC, Sulfur)
Carbon, Hydrogen, Nitrogen *D5373*
Ultimate Analysis (M, A, S, C, H, N) *D5373*
Major Ash Elements (10) *D4326 / D6349 / D6357 / D3682*
SiO₂, Al₂O₃, Fe₂O₃, CaO, MgO, Na₂O, K₂O, P₂O₅, TiO₂, SO₃
Major Ash Elements (10+3) *D4326 / D6349 / D6357 / D3682*
List above & MnO₂, BaO, SrO

Coal Analysis

% Total Moisture *D2961/D3302*
% Ash (as determined) *D3174 / D7582*
Calorific Value (as determined) *D5865*
% Sulfur (as determined) *D4239 / D7582*
% Volatile Matter (as determined) *D3175*
Residual Moisture *D3173 / D7582*
Loss on Ignition (LOI) *D7348*
Ash Fusion Temperature (4-point) *D1857*
Ash Fusion Temperature (8-point) *D1857*
Sulfur (Pyritic, Sulfate, Organic) *D2492*
Total Chlorine *D4208 / D6721*
Total Mercury *D6722*
Water Soluble Alkalies *D8010*

Physical Coal Analysis

Hardgrove Grindability Index *D409*
Equilibrium Moisture *D1412*
Free Swelling Index *D720*
Bulk Density *D291*
% Solids
% Magnetics (Davis tube & Retractable magnet)
Particle Size (Wet & Dry) *D4749*
Float Sink Separation *D4371*
Froth Flotation *D4371*
Specific Gravity (True & Apparent) *D167*
Fineness Particle Size *D197*

Coke Analysis

CSR / CRI *D5341*
Tumbler Stability / Hardness *D3402*
Coke Petrographics Analysis *D5061*

Metallurgical Coal Analysis

Dilatometer *D5515*
Gieseler Plastometry *D2639*
Oxidation by Alkali Extraction *D5263*
Petrographics Analysis *D2798/2799*

Projects

Core Studies *D4749 / D4371*
Preparation Plant Studies *D4749/D4371*
Bias Test *D7430*
Washability Study *D4749/D4371*