



BIHIS-MAALA BASICS

"DELIVERING GLOBAL QUALITY STANDARDS"

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COAL/COKE LABORATORY EQUIPMENT SUPPLIER

LECO Corporation : SC832

Sulfur & Carbon Analyzer

- Combustion method
- Analysis time : 60 - 120 seconds
- Conforms to :

- ASTM
 - D4239/ Mth A
 - D5016
 - D5373/ Mth B
 - 1552, 1619, 7633
 - 7662, 7679
- ISO
 - 19579
- UOP
 - 864



LECO CORPORATION : CHN828

Carbon, Hydrogen & Nitrogen

- Combustion method
- Analysis time : 4 mins
- Conforms to :

- ASTM
 - D5373/ Mth A
 - D5291
- ISO
 - 29541
 - 16948



LECO CORPORATION : CHN828 w/ S832 module

Carbon, Hydrogen, Nitrogen & Sulfur Analyzer

- CHN828 with S832 add-on module.
- Ultimate Analysis



LECO Corporation : AC500

Isoperibol Calorimeter

- Gross calorific value analysis of coal, coke, oil and alternative fuels
- Integrated water measuring system
- Conforms to ASTM D5865, D240, D4809 and ISO 1928



LECO Corporation : AC600

Semi-Automatic Calorimeter

- Gross calorific value analysis of coal, coke, oil and alternative fuels
- Automated water handling and vessel/bucket/jacket sealing
- Utilizes an ergonomic light-weight vessel
- Conforms to ASTM D5865 and ISO 1928



LECO Corporation : TGA801

Thermogravimetric Analyzer

- Proximate analysis : moisture, volatiles, FC & ash
- Conforms to ASTM D7582, D7348 and D8339



LECO Corporation : AF700

Ash Fusion Determinator

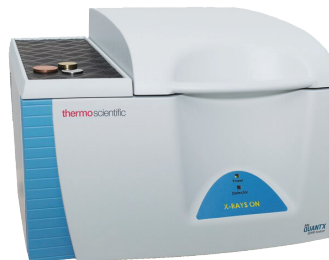
- Ash fusibility : initial deformation, softening, hemispherical and fluid temperature
- Automatically determines ash fusibility temps using image recognition function (IRF)
- Conforms to ASTM D1857



Thermo Fisher Scientific : ARL Quant'X

Coal Ash Analysis - ED-XRF

- Energy dispersive XRF
- Coal ash analysis as loose powders or according to ASTM D4326 as fused beads



Hardgrove Grindability Index Tester

HGI Tester

- Perform HGI testing according to ASTM D409
- Includes complete procedure and calibration



Coal Sample Preparation Equipment

Air-Drying Oven

- Sample preparation according to ASTM



Coal Sample Preparation Equipment

Crusher

- Sample preparation according to ASTM



Coal Sample Preparation Equipment

Pulverizer

- Sample preparation according to ASTM



Coal Sample Preparation Equipment
Rotary Sample Divider

- Sample preparation according to ASTM



Coal Sample Preparation Equipment
Sieves & Sieve Shaker

- Sample preparation according to ASTM



Furnace
Ashing Furnace, Volatiles



Anhydrous
Magnesium Perchlorate

- Dessicant
- Requires a PNP Permit



Calibration/Mixed Gases
Specialty Gases

- Calibration Gases (CEMS, AQMS)
- Mixed Gases
- EPA protocol gases
- RATA gases



Gas Lines/Regulators
Gas Lines/Regulators

- Installation and supply of high purity pressure regulators and gas lines for machines requiring connection to gas cylinders



Standards
Coal Standards/CRM/SRM

- % C,H,N,S
- Proximate analysis : moisture, volatiles, FC, ash
- HGI Standards (~40, 60, 80, 100)
- ppm Hg
- BTU/lb
- Coal ash XRF standards



Standards
Standards/CRM/SRM

- Calorimeter - benzoic acid tablets (BTU/lb)
- Weight loss standards
- Ash fusion standards
- nickel wire
- gold wire
- AAS, ICP, ICP-MS standards
- Ion chromatography standards

