



BIHIS-MAALA BASICS
"DELIVERING GLOBAL QUALITY STANDARDS"

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PRODUCTS

LECO CORPORATION

Nitrogen/Protein Analyzer

- Dumas/Combustion Method
- 3 mins per analysis
- Safer Alternative to Kjeldahl Method

Bomb Calorimeter

- 5 mins per analysis
- Semi-Automatic and Manual Models--

Thermogravimetric Analyzer (TGA)

- Moisture, Volatiles, FC and Ash Analyzer
- Automated Moisture, Ash, LOI, Total Solids Analyzer

C/H/N/S/O Analyzer (Organic)

- C/H/N/S/O by combustion

Ash Fusion Determinator

- Determines the Initial Deformation Temp, Softening Temp, Hemispherical Temp and Fluid Temp of ash

GC - Time-Of-Flight Mass Spectrometer

- Gas Chromatograph w/ Time-of-Flight MS

GCxGC - TOF Mass Spectrometer

- a 4 dimensional GCMS
- Uses 2 different GC columns w/ a TOF MS Detector

Carbon and Sulfur Analyzer (Inorganic)

- Carbon and Sulfur in metals and alloys by combustion

O/N/H Analyzer (Inorganic)

- ONH in metals and alloys by combustion

Moisture and Organic Carbon Analyzer

Glow Discharge Spectrometer

- Alternative to spark for Elemental/Bulk Analysis
- Coating/Quantitative depth Analysis

Sectioning/Cut Off Machines

Mounting Press

- Compression/Hot Mounting and Castable/Cold Mounting

Grinding and Polishing Machine

Hardness Testers

- Micro and Macro
- Vickers, Knoop, Rockwell, Brinell and Automated System

Image Analyzer

- Analyzes images produced using the Inverted Microscope

Inverted Microscope

Anhydron/ Magnesium Perchlorate

- used as a desiccant by combustion analyzers

Metallography Supplies

- Sectioning Blades (Al₂O₃, SiC, CBN and Diamond Blades)
- Abrasive Discs (SiC, Al₂O₃ and Diamond Discs)
- Polishing Cloths (Coarse to Fine Polishing)
- Polishing Abrasives (Diamond Suspensions, Colloidal Silica, Cerium Oxide, Chromium Oxide, Aluminum Oxide, etc)
- Polishing Lubricants (Diamond Lapping Oil, etc)
- Castable Mounting (Long-Cure Epoxy, Quick-Cure Epoxy, etc)
- Hardness Test Blocks (Marco/Micro Vickers, Knoop, Rockwell)

Standards/Certified Reference Materials

- Copper, Iron, Steel, Nickel (%C,H,N,O,S)
- Calcium Oxalate (%weight loss at 200, 450 and 850C)
- Benzoic Acid Tablets (BTU/lb ; Calorific Value)
- Pure Chemical Standards : BBO, Calcium Carbonate, EDTA, Phenylalanine, Sucrose, Sulfamethazine (%C, H,N,S)
- Ore and Soil Standards (% S, C, N)
- Natural Matrix Standards : Corn Flour, Wheat Flour, Rice Flour, Alfalfa, Tobacco Leaves, Corn Gluten (%C, H,N,S)
- Coal, Coke and Fly Ash Standards (%C, H, N, S, Ash, FC, Volatile Matter, BTU/lb, ppm Hg)
- Ash Fusion Gold and Nickel Wire (Melt Pt at 1062 and 1455 C)

MECMESIN

Force Gauge

Universal Testing Machines

Force/Materials Testing Machine

- Compression Testing
- Tension/Tensile Testing

Torque Testing Machine

Food Texture Analyzer

- Simulate firmness, sliceability, tenderness, chewiness, etc
- Compression, Bulk, Penetration/Puncture, Shearing/Slice, Snap, Tension/Tensile and Extrusion Testing of Food.

TONI TECHNIK

Vibrating Table

Automatic Mortar Mixer

Automatic Vicat Machine

- 1, 2, 6 and 12 placer

Automatic Blaine Device

Differential Calorimeter

Compression Machine

Compression and Bending Machine

Cement laboratory supplies

BWB TECHNOLOGIES

Flame Photometer

- Sodium, Potassium, Calcium, Lithium and Barium (Na, K, Ca, Li, Ba) Analysis

HERZOG

CEMENT INDUSTRY

Crusher

Pulverizer

Pellet Press

Electric Fusion Machine

Sampling Systems

STEEL INDUSTRY

Milling

Grinding

Cutting and Punching

Slag Sample Preparation

OXFORD INSTRUMENT

Quality Control NMR Spectrometer

- Total Oil/Fat Content as an alternative to soxhlet
- Solid Fat Content analysis

Solid Fat Content (SFC) Analyzer

Low Field NMR Spectrometer

- uses a 60 mHz magnet
- ¹H, ¹⁹F, ¹³C, ³¹P, ¹¹B, ²⁹Si, ²³Na, Sn, Te, Xe, Cd, Pt

THERMO SCIENTIFIC

Energy Dispersive XRF Spectrometer

Wavelength Dispersive XRF Spectrometer

XRF with Compact XRD

X-Ray Diffraction

Spark Optical Emission Spectrometer



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PRODUCTS

LABORATORY EQUIPMENT AND SUPPLIES

Oven

Furnace

Environmental Chamber

- Stable control of Temperature, Humidity and Lighting

Incubators

- Temperature, CO2 and Humidity Control

Water Baths/Chillers/Recirculators

Fumehood and Scrubber

Microwave Digestion System

Hot Block Digestion System

Crucibles and Lids

- Platinum Crucibles
- Nickel, Stainless Steel, Zirconium and others

Flash Point Tester

Water Baths/Chillers/Recirculators

Sieves and Sieve Shaker

Pressure Regulators

Incoming Gas Filters

- Filters, Moisture Traps and Hydrocarbon Traps

Anhydrous/ Magnesium Perchlorate

- used as a desiccant by combustion analyzers

Cement Laboratory Eqpt/Supplies

- Flow Table
- Autoclave
- Double Mould
- Triple Mould
- Cube Mould
- Grinding Aid For Pelletizing
- Fusion Flux

Airjet Sieving Machine and Airjet Sieves

Standards/Certified Reference Materials

- AAS Standards and Supplies
- ICP OES Standards
- Coal Certified Reference Materials
- CHNSO Certified Reference Materials
- Benzoic Acid/Calorific Value Standards
- Inorganic/Metal Standards
- Cement Standards

Metallography Supplies

- Sectioning Blades
 - Diamond, CBN and Al2O3 Blades
- Mounting Supplies
 - Bakelite, Epoxy, Lucite
 - Polyester, Acrylic, Epoxy
 - Molds and mixing kits
- Abrasive Discs
 - Silicon Carbide, Aluminum, Ceramic, Zirconium
- Polishing Supplies
 - Polishing Cloths
 - Polishing Compounds
 - Diamond Polishing Compounds and Suspensions
- Hardness Test Blocks

AIRGAS USA LLC

Gas Handling Equipment

ULTRAFLEX

Induction Melters

- Static Induction Melters
- Tilting Induction Melters

Induction Casting Machines

- Centrifugal Casting
- Pressure-Over-Vacuum Casting

GASES

Calibration Gases

Mixed/Customized Gases

Ultra High Purity Gases

EPA Protocol Gases

Application/Industry Specific Gases

- Biological Atmosphere (anaerobic and aerobic mixtures)
- Gas Chromatograph Gases
 - Flame Ionization Mixtures
 - Electron Capture Mixtures
 - Thermal Conductivity Gas Mixtures
- Hydrocarbons
- Spark Chamber Mixtures

COAL SAMPLE PREPARATION EQUIPMENT

Rotary Sample Divider

Crusher

Pulveriser

Air Drying Cabinet

Sieve Shaker

Sieves

Hardgrove Grindability Index Tester

Coal Standards/Certified Reference Material

SERVICES

After Sales Support

- Installation, Commissioning and Onsite Training
- Preventive Maintenance
- Remote Troubleshooting
- Repair
- Application Support

Calibration Services

Gas Lines Installation

- High Purity Stainless Steel Gas Lines
- Protect Equipment from corrosion and leaks from low quality gas lines