Solutions for

Cement Analysis

LECO

EMPOWERING RESULTS

Count on LECO Analytical Solutions

In Your Analytical Challenges

LECO offers a variety of qualitative and innovative products to make cement analysis more productive, profitable than ever before. Precision, performance reliability and ease of use are key features of our products for many applications in a cement, research and quality control laboratories.

Together with our global service network we create the foundation for happy and satisfied customers in the cement industry.

Fuels

- Sulfur in coal / oil
- Gross calorific value of alternative fuels (tyres, biofuels...)
- CHNS in solid and liquid fuels
- Proximate analysis (moisture/ volatiles/ash/fixed carbon)

Cement

- CO_2 / SO_3 in cement
- Moisture / LOI in cement
- TOC in cement
- Hydration water in cement

Raw Materials

- TOC in limestone
- CO_2 / SO_3 in raw meal
- Moisture, LOI in raw meal
- Hydration forms of gypsum by TGA
- Carbon / water and sulfur in burnt lime

Clinker

- CO_2 / SO_3 in clinker
- LOI in clinker
- Cement phases in clinker (A-lit B-lit ...)
- Moisture content of clinker

Environmental Samples

- TOC of disposals
- Composition of fly ash
- TOC / TIC / EC content without acid treatment
- Moisture / LOI in fly ash

Alternative Fuels

- Sulfur in biofuels / alternative fuels
- Gross calorific value of byproducts
- Gross calorific value of alternative fuels
- CHNS in alternative fuels

Research

- Different applications
- New cements
- New concretes
- New building materials

AC600 **Calorimeter**

- Gross calorific value in fuels
- Gross calorific value in alternative fuels
- Calorific value of environmental samples

CHNS828 **CHNS Elemental Analyser**

- C, H, N and S in coal, coke
- C, H, N and S in alternative fuels / biofuels
- C, H, N and S in liquid fuels
- C, H, N and S in environmental samples

RC612 **Carbon / Water Phase Analyser**

- TOC / TIC / EC content of limestones, raw materials and other matrices
- CO / water content of cement / clinker
- Quick test of LOI by water / CO_2 testing
- Moisture, water, carbon in burnt and slaked lime
- CO_2 / carbonate content in lime
- Crystalline water in clinker
- H_2O-phases / lime / gypsum
- CO_2-phases in cement

TGA801 **Macro Thermogravimetry**

- Loss on Ignition (LOI) in fly ash, coal fly ash and Portland cement by macro TGA
- Two-Step Loss-on-Ignition (LOI) on cement
- Moisture, volatiles, ash, and fixed carbon in coal
- Moisture, volatiles, ash in alternative fuels
- Hydration forms of gypsum
- Moisture / crystalline water in lime

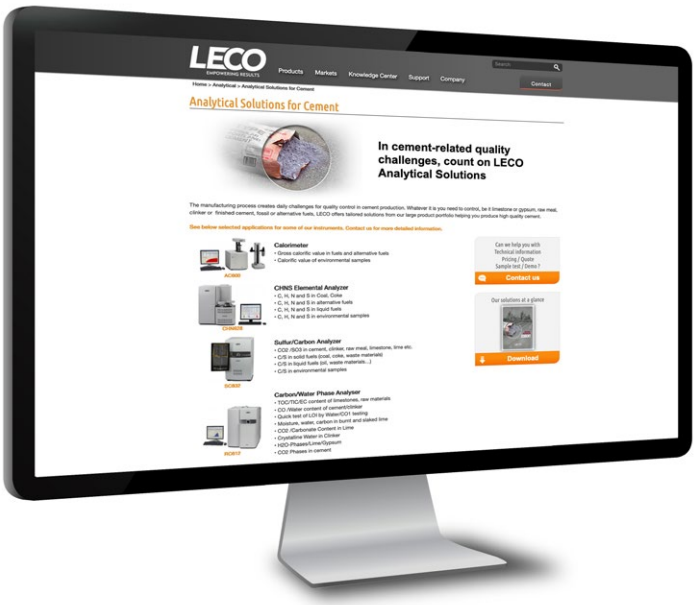
SC832 **Sulfur / Carbon Analyser**

- CO_2 / SO_3 in cement, clinker, raw meal, limestone, lime etc.
- C / S in solid fuels (coal, coke, waste materials)
- C / S in liquid fuels (oil, waste materials, ...)
- C / S in environmental samples

CS744 **HF Carbon Sulfur Analyser**

- Fast determination of CO_2 / SO_3 in cement, clinker and other cement products
- SO_3 in gypsum

Access to More Resources Available On-Line



APPLICATION LIBRARY

To access a complete library of application notes with full-text search service, visit our website:

EU.LECO.COM

- Loss-on-Ignition (LOI) in Fly Ash, Coal Fly Ash and Portland cement by Macro TGA; 203-821-489
- Two-Step Loss-on-Ignition (LOI) on Cement; 203-821-149
- Moisture, Volatile Matter, Ash, and Fixed Carbon in Coal; 203-821-311
- Carbon and Sulfur in Burnt Lime; 203-821-135
- Sulfur and Carbon in Cement, Fly Ash, Limestone, Soil, and Ore; 203-821-307
- Sulfur Determination in Cement, Limestone, Lime, Coal Fly Ash, Shale, Ore, and Similar-Type Material; 203-821-268
- Carbon, Hydrogen, and Nitrogen in Coal; 203-821-403
- Gross Calorific Value in Coal – AC600; 203-821-483
- Mercury in Cement Raw Meal, Flue Ash, and Clay; 203-821-115
- Cement Clinker materialography; 203-821-323

Contact us for a quote
or any additional information.

LECO Corporation
3000 Lakeview Avenue | St. Joseph, MI 49085
Phone: 269-985-5496
info@leco.com | www.leco.com

LECO Europe
eu.leco.com

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