



R&D company of VIOHALCO S.A.

ELKEME Hellenic Research Centre for Metals S.A., Piraeus str. 252,
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www.elkeme.gr



Brief Introduction
March 5th 2015

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ELKEME Hellenic Research Centre for Metals S.A.

➤ Through a variety of state-of-the-art laboratories ELKEME focuses on industrial research and technological development/analysis of metals (Aluminum, Copper, Steel and Zinc) providing efficient solutions to the customers.

➤ Our activities are mainly focused on applied technological research towards:

- Quality improvement of existing and Development of new, Founded in 1999 to support the Hellenic Metallurgical Industry.
- innovative and high added value products,
- Optimization of industrial processes, to support energy and cost efficient operations with respect to human health and safety as well as the environment. In parallel, continuous research is being conducted on plant environmental performance and impact assessment, as well as in sectors such as recycling, stabilization and utilization of by-products towards companies' sustainable growth.

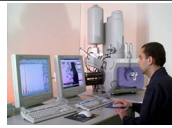


ed at the original facilities where
HALCO first started production in 1937



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Key Objective:

Provide high added value R&D services and technical solutions applicable to business and plant production processes, through:

- ✓ *Employment of highly capable scientists, engineers and technicians*
- ✓ *Investment in human assets via continuous professional development and education*
- ✓ *Adoption of a flexible "customer-focus" business model*
- ✓ *High quality and cutting-edge laboratories*
- ✓ *Conducting research projects in Metallurgy, Materials Science and Environmental Engineering*
- ✓ *Shaping strong relationships with customers, employees and partners, together with National and International Research and/or Academic Organizations building a "knowledge" and "competence network"*



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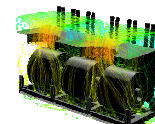
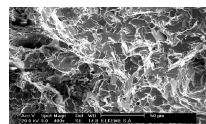
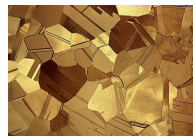
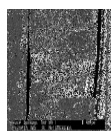
Sections

- Analytical Chemistry
- Environmental and Corrosion
- Metallography and Electron Optics
- Foundry, Thermal and Steel Processing
- Physical Metallurgy and Forming
- Mechanical Testing
- Surface Science and Coatings
- Mathematical Modeling



Research & Development

- Alloy & process development and optimization
- Industrial trials with scientific monitoring
- Simulation of thermal, casting and forming processes for process optimization
- Microstructure characterization
- Failure analysis
- Studies of surfaces & coatings
- Characterization and study of sandwich composite materials
- Chemical, mineralogical and texture analysis
- Environmental and waste management /recycling
- International & National R&D projects



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Participation to research networks and International presence.

ELKEME has established and maintains long term relationships with academic institutes (eg. NTUA, Universities of Patras and Ioannina, TEI of Piraeus, University of Ghent), research institutes and industrial entities both in Greece and in Europe.

It is also actively participating in international ventures and collaborations on metallurgy and materials science research programs.

ELKEME team members participate in international scientific/engineering associations and serve as members of worldwide scientific committees, while they regularly contributing research papers to scientific journals and conferences (Conferences: e.g. ICEFA, ICAA, ICEAF, Thermec, Journals published by: ASM/Springer, Elsevier, Emerald, etc.)

