A CASE STUDY FROM
SPECTRO ANALYTICAL INSTRUMENTS

SPECTRO ED-XRF Accelerates Galvanic Analysis for Kemia Srl

SPECTRO ED-XRF Benefits for Kemia Srl

- Ideal for quality monitoring of plating bath solutions and plating thickness analysis
- Unparalleled ease-of-use: Just three simple steps to accurate results
- Intuitive software
- Compact footprint fits tight benchtop spaces

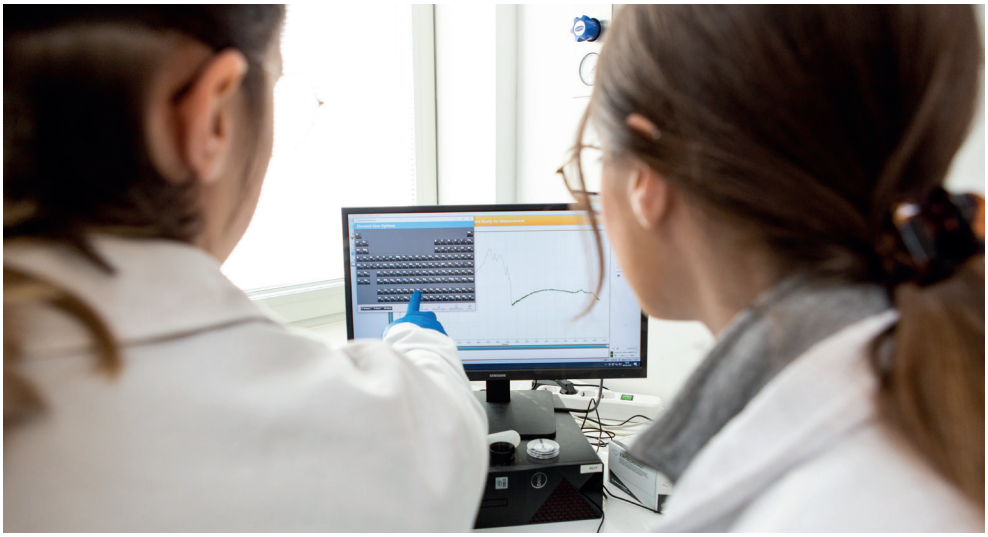


Photo: Kemia Srl

The Challenge

Kemia Srl, based in Tuscany, Italy, is one of the main players in the galvanic and electroplating sector. Kemia develops cutting-edge solutions in various fields, including decorative, GMF, POP, reel-to-reel and PCB.

In the past, Kemia used an analytical solution based on atomic absorption spectrometry and classical chemical analysis to analyze the different materials.

Over time, however, it became clear that this solution wasn't meeting the company's needs anymore. "The main problem was time, because the analysis took too long and required an expert technician," recalls Kemia's CEO Mario Stanghini.

The Solution

In 2016 Mario Stanghini saw an ED-XRF analyzer from SPECTRO at a trade show and decided to purchase the instrument because it allowed him to reduce analysis time and did not require an expert technician for daily use, only for calibration.

The Results

It quickly became clear that the new SPECTRO ED-XRF analyzer had really improved Kemia's business. "Now the analyses are done much faster than before. This allows our technicians to perform more analyses. We have also improved our customer service while maintaining the same quality," says Stanghini.

It used to take about 4 hours to analyze and solve a problem. Now it takes only 1 hour. Kemia is also saving money by using fewer consumables. "In our opinion, this SPECTRO ED-XRF analyzer offers the same precision as flame instruments such as ICP or AAS. This is an important achievement for XRF technology, especially when you consider the speed with which results are obtained compared to ICP or AAS."

Kemia also appreciates the comprehensive service provided by SPECTRO – fast and effective. "We can definitely recommend the SPECTRO ED-XRF technology for applications like ours."

The new instrument has completely changed the way reference samples are prepared for calibration: "Thanks to the new instrument, we have changed the way standards are prepared – not by simple dilution as in the past, but by keeping the same 'saline' matrix and alternating the concentrations of the different metals independently. This has greatly improved the accuracy of the sample readings," says Laboratory Manager Julia Arcangeli.

In 2020, Kemia added the SPRECTROCUBE to their laboratory, which enables the analysis of liquids and thicknesses with only one instrument. In the case of thickness, the SPECTROCUBE makes it possible to customize the analysis methods according to the specific needs. This creates a certain degree of autonomy within the company, and provides economic savings.



Photo: Kemia Srl

About Kemia

Kemia Srl, based in Tuscany, Italy, develops innovative surface treatment processes. Kemia is one of the main players in the galvanic and electroplating sector, developing cutting-edge solutions and specializing in various fields, including Decorative, GMF, POP, Reel to Reel and PCB.

About SPECTRO

SPECTRO is one of the world's leading suppliers of analytical instruments. Its advanced analyzers use optical emission spectrometry (arc/spark OES, ICP-OES), and X-ray fluorescence spectrometry (XRF) in the elemental analysis of materials for industry, research, and academia.

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SPECTRO
AMETEK

GERMANY
SPECTRO Analytical Instruments GmbH
Boschstrasse 10
D-47533 Kleve
Tel. +49.2821.892.0
spectro.sales@ametek.com

U.S.A.
SPECTRO Analytical Instruments Inc.
50 Fordham Rd
Wilmington 01887, MA
Tel. +1 800 548 5809
+1 201 642 3000
spectro-usa.sales@ametek.com

CHINA
AMETEK Commercial
Enterprise (Shanghai) CO., LTD.
Part A1, A4 2nd Floor Building No. 1 Plot Section
No. 526 Fute 3rd Road East; Pilot Free Trade Zone
200131 Shanghai
Tel. +86.400.022.7699
spectro-china.sales@ametek.com

Subsidiaries:
▶**FRANCE:** Tel. +33.1.3068.8970, spectro-france.sales@ametek.com ▶**GREAT BRITAIN:** Tel. +44.1162.462.950, spectro-uk.sales@ametek.com
▶**INDIA:** Tel. +91.22.6196.8200, sales.spectroindia@ametek.com ▶**ITALY:** Tel. +39.02.94693.1, spectro-italy.sales@ametek.com
▶**JAPAN:** Tel. +81.3.6809.2405, spectro-japan.info@ametek.co.jp ▶**SOUTH AFRICA:** Tel. +27.11.979.4241, spectro-za.sales@ametek.com

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