

## SPECTROTEST & SPECTROPORT Mobile Metal Analyzer

# Standardization can be Smart — That's What iCAL 2.0 is

- Improved stability for alloy testing
- Unique iCAL one-sample standardization, to save average of 30 minutes per day
- Ideal for on-site measurement of metal composition
- Highly cost-effective versus prohibitive expenses of off-spec products

SPECTROTEST mobile metal analyzer and the more portable SPECTROPORT maintain analytical stability even with large temperature variations. So, they can move from office to warehouse to field, usually without added standardizations.

How it works? iCAL 2.0, the intelligent calibration logic processing makes it possible.

iCAL 2.0 makes standardization more intelligent and less often necessary than ever before. SPECTROPORT and SPECTROTEST allow users to perform a single-sample standardization (in less than 5 minutes) at the start of the day's testing. The iCAL diagnostics ensure stable performance through a typical day, and the software helps maintain the same standardization, regardless of most temperature shifts.

So, iCAL 2.0 automatically makes any needed corrections at the beginning of each measurement. This ensures the best analytical performance every time.

With this incredible analytical stability, standardization may only be necessary once a day.

GERMANY  
SPECTRO Analytical Instruments GmbH  
Boschstrasse 10  
D-47533 Kleve  
Tel: +49.2821.892-0  
Fax: +49.2821.8922200  
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



## SPECTROTEST & SPECTROPORT Mobile Metal Analyzer

---

# Standardization can be Smart — That's What iCAL 2.0 is

---

SPECTRO's exclusive iCAL 2.0 maintains the optical system, and thereby the calibrated analytical methods, in a consistently unchanging original state, equivalent to when it left the factory. This means that without any additional intervention, all calibrated analytical methods are in a constant state of optimal readiness, delivering proper results for all elements across the entire calibration ranges. All this with the measurement of just a single sample.

In contrast, conventional standardization requires the measurement of several samples for each base metal type. However, this process only addresses "estimated" changes in the optical system response and does not reset the optical system to its original state like iCAL 2.0. To confuse the issue, some manufacturers may claim to have single sample standardization, but in fact they are most likely using a form of type standardization that optimizes a calibrated analytical method for a very specific, and restricted, concentration range.

Our stationary metal analyzers, SPECTROMAXx and SPECTROLAB S are also equipped with iCAL 2.0.

For further details and information about iCAL 2.0, please watch the video:

<https://go.spectro.com/video/ical20>