



The Rigaku KT-Series analyzers are provided with factory calibrations based on trace-able standards. The following calibrations are included with a Rigaku KT-100S analyzer:

Standard Calibrations

Matrix		Calibrated Elements												
Magnesium		Base alloy ID Only												
Cast Aluminum		Mg	Si	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Zr	Ag	Pb	
Aluminum		Li*	Mg	Si	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Zr	Ag	Pb
Titanium		Al	V	Cr	Mn	Zr	Nb	Mo						
Stainless Steel	Cr	Cr	Mn	Ni	Cu	Mo								
	Cr/Ni	Al	Ti	Cr	Mn	Ni	Cu	Mo	Al	Nb				
	Cr/Ni/Co	Cr	Mn	Co	Ni	Cu	Mo							
Low Alloy Steel		Si	V	Cr	Mn	Ni	Cu	Mo	Pb					
Cobalt		Al	Ti	Cr	Mn	Fe	Ni	Mo	W					
Nickel		Al	Ti	Cr	Mn	Fe	Co	Cu	Nb	Mo	W			
Copper		Be	Al	Si	Mn	Fe	Ni	Zn	Ag	Sn	Pb	Bi		
Zinc		Base alloy ID Only												
Tin		Base alloy ID Only												
Lead		Base alloy ID Only												

*Lithium is optional on a KT-100S.

Verification

To verify the daily stability of the analyzer and factory calibration, Rigaku provides an Aluminum 7075 and a stainless steel 316 with the device. It is recommended that one or both of these reference samples are analyzed daily using the analyzer’s “System Check” functionality. The analyzer will display a match number and a “pass” when the device is within specification for these reference samples.

Certification

Rigaku recommends an SOP that includes daily verification of the analyzer’s calibration. If unit is within specification and yields a “pass” for the included reference samples, a re-certification of the device is NOT required.

However, if internal standards (ISO or other) require a company to re-certify the device yearly, Rigaku Analytical Devices does offer an analyzer re-certification. For this routine, 25 or more reference samples are analyzed versus the device and a new certificate is provided.

Calibration

A factory re-calibration is performed when a unit requires replacement of the laser or detection systems. A re-calibration may also be performed when a unit does not pass the certification process.

Routine re-calibrations is NOT recommended or required for the device.