

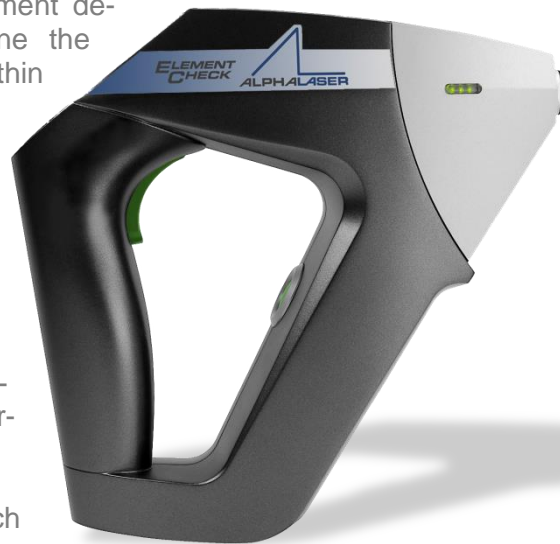
ElementCheck

The handheld measurement device for material determination

Determine the components of a material – quickly and precisely

With ALPHA LASER's handy measurement device ElementCheck, you can determine the chemical components of a work piece within seconds, simply by touching it. Prior to laser welding, this is particularly useful to determine the suitable welding wire and the ideal laser parameters.

The device uses the X-ray fluorescence analysis (RFA) to provide a precise analysis of the chemical elements contained in a material, including the proportional weight of the elements in %. This measurement method shows its strengths especially with metal alloys such as steel, iron or precious metal alloys.



With this compact and easy to use device, you hold a complete laboratory in your hands.

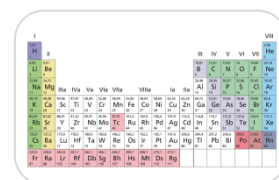
Easy handling



Simply hold the device against the work piece, then press the measuring buttons.




Within seconds, the exact result is displayed on the back side of the device.



ElementCheck reliably determines all elements with an atomic numbers of 11 (sodium) or higher.

Technical Data

Dimensions (L x W x H)	220 x 230 x 80 mm
Weight	1750 g (including battery)
Measurement method	energy dispersive X-ray fluorescence analysis
Detector	Thermoelectrically-cooled large-area silicon-drift detector (SDD)
X-ray tube 	10 – 40 keV, max. 4 W, Ag-Anode, encapsulated
Measurement aperture	6 mm aperture, automatic detector protection by mechanical shutter
Analyses	Standard element lists, customized lists upon request
Calibration	Automated by internal reference material
Display	High-contrast, wide-angle, high-resolution color display with 320 x 240 pixel, multicolor LEDs for power status
Power supply	Built-in rechargeable Li-Ion battery, battery status display, universal AC charger 100 – 240 V AC, 47 – 63 Hz, charging possible during operation
Interface	USB port
Safety	Mechanical shutter, comfortable activation using PIN code, initiation by pressing two green buttons, acoustic feedback
Scope of delivery	Measurement device, AC charger, USB cable, manual, carrying case

The advantages at a glance

- ➔ Easy and fast to use
- ➔ High measurement accuracy
- ➔ Safe
- ➔ Solid and reliable
- ➔ Functional design
- ➔ Ergonomic handling

