



COPPER ALLOY ANALYZER

The ScopeX Copper Alloy Special Analyzer, is a spectrometer designed specifically for rapid analysis of copper alloys. It features high precision, a wide range of analyzable elements, and quick testing capabilities. This instrument enables swift analysis of copper alloys, serving not only for product quality control but also for new material development, production process monitoring, and waste recycling.

By providing accurate composition analysis, it aids manufacturers in ensuring that products meet standard requirements, fostering technological advancement, and promoting sustainable development within the copper alloy industry.

The copper alloy industry involves the production and application of materials based on copper, incorporating elements like zinc, tin, aluminum, nickel, etc., to create alloys with specific properties. These alloys are widely utilized across various fields such as electronics, construction, automotive, aerospace, military, machinery manufacturing, and more, owing to their outstanding electrical and thermal conductivity, corrosion resistance, and mechanical properties.

As science, technology, and industry advance, the performance demands for copper alloys are increasing, driving continuous material research, development, and process innovation within the copper alloy industry.

APPLICATIONS

Copper Alloy Analyzer - Waste recovery and sorting

Recovery and sorting of waste copper alloy

Copper Alloy Analyzer - Quality control and assurance

Quality control and assurance of copper alloy

Copper Alloy Analyzer - Raw material and grade identification

Identification of copper alloy raw material/grades

FEATURES

Data transmission

Data transmission can be accomplished through various methods, including USB, WiFi, wireless Bluetooth, and other wireless communication technologies.

A variety of collimator, filter automatic switch

The instrument offers four types of collimators: 5mm, 3mm, 1mm, and 0.5mm. The software enables automatic switching between collimators and filters, which saves time and effort. By selecting the appropriate collimator and filter combination, detection accuracy and sensitivity can be enhanced.

User-defined

Users have the flexibility to save the file in formats such as Excel, PDF, and others. They can also customize the test report to include company logos, spectral spectra, and other relevant sample information.

Safety

The device features a fully enclosed metal chassis and a leakage protection switch, offering a more scientifically designed setup. The coordination between hardware and software ensures seamless mechanical and electrical integration. Additionally, radiation safety measures comply with international standards.

TECHNICAL SPECIFICATIONS

Range of element	Na—U
Sample room size	365×300×78mm□ L×W×H□
Maximum sample weight	0-2.5KG
Cover open	Automatic
Mainframe size	570×400×400mm
Weight	47KG
X-ray tube	High power side window X-ray tube□ 50W, pipe pressure pipe flow can be adjusted freely, W/Ag/Rh target (optional)
Voltage	Up to 50kV
Current	Maximum 1mA
Cooling Method	Air cooling
Type	Si-pin/SDD(Optional)
Sample Observation	5 megapixel HD industrial camera
CPU	is I3-7100 with the same main frequency or above

RAM	DDR4 4 GB memory or above
ROM	1TB HDD or 256GB SSD or above
OS	Windows 11
Temperature conditions	10°C~35°C
Relative humidity	40%-70% □ No condensation□
Power supply	220VAC (110V also available)
Rated power	100W



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