

Stock Code: 300165



Test report:

Cu ore sample inspection report

	: Straight-line me : Cu ore samples		d:Atomic a	bsorption	Analytical ins	struments :AA	S6000
[Instrument parameters]	Lamp current: 2mA Slit: 0. 2nm Before and after combustion chamber: 13. 794 Back button state: without				Negative high-pressure: 221, 56V G ₂ H ₂ flow: 1, 6L/min Combustion chamber fluctuation: 9, 4316 Back button current		
[Analysis parameters]	Element information : Cu Integral time : 1 Sample unit : ppm			İ	Fit method: Linear Formula: Y=0.2041X×+0.0039 R: 0.99987		
[Spectrum]	ABS 1.00— 0.80— 0.40— 0.20— 0.00 0.66 1.32 1.98 2.64 3.30						
[Analysis result]	Name Standard1 Standard1 Standard1 Standard2 Standard2 Standard2 Standard3 Standard3 Standard3	concentration 0. 00 0. 00 1. 00 1. 00 1. 00 2. 00 2. 00 2. 00 3. 00 3. 00 3. 00	ABA 0. 0187 0. 0193 0. 0190 0. 2168 0. 2154 0. 2174 0. 4174 0. 4175 0. 4153 0. 6096 0. 6157 0. 6132	0. 0190 0. 2126 0. 4144 0. 6129	0. 0003 0. 0010 0. 0035	RSD 0.0136 0.0047 0.0085	

The ISO 9001:2008 international quality certification system is adopted by our company



AAS6000 Atomic Absorption Spectrometer

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Test data in this manual, if not noted, is our company's test data.

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Jkyray Skyray Instrument

AAS6000 Atomic Absorption Spectrometer

Good stability, high sensitivity, low LOD and easy operation

With its years of experience in spectrometer developing and research, Skyray brings AAS6000 flame atomic absorption spectrometer out as one of the main products. Designed with latest international technology, the instrument can provide customers with modularization, automation and humanity, more convenient product upgrade, easier instrument operation, more smooth analysis.



Technical specifications:

Atomizer: flame atomizer

Wavelength range: 190nm-900nm Monochromator type: Czerny-TurnerType

Spectral bandwidth: 0.1/0.2/0.4/0.7/1.4 nm

automatically switch

Blazed wavelength of gratings: 230nm

Grating number: 1800wires/mm

Wavelength accuracy: ±0.25nm Wavelength repeatability: <0.1nm

Resolution: >0.3nm

Characteristic concentration (Cu): 0. 025ug/ml/1%

Detection limit (Cu): 0.006ug/ml

Precision (Cu): ≤1%

Baseline Stability: 0.004 Abs(static state)

0. 005 Abs (dynamic state)

Application fields:

Geology and minerals, metallurgical analysis, steel, nonferrous metal analysis

Environmental analysis, air, water quality and soil analysis

Petrochemical complex and light industrial products analysis, crude oil and related products analysis

Food, biomedicine and health care products analysis, green agricultural products and feed analysis









AAS6000 Performance characteristics:

Total reflection achromatic optical system

effectively solve the achromatic problem of different focuses of different elements, increasing the efficiency of optical system.

Full automatic design

The instrument is totally monitored and controlled by computer, except for mainframe power switch.

8-element lamp beacon

When one of the lamps is working, the other seven ones are being preheated at the same time, saving lamp changing and preheating time, the operation is more convenient as a result.

USB2, 0 mode

Update the old 232 faucet mode into the latest USB2.0 mode, increase the communication speed, and compatible with the new operation system.

Pure Ti atomization chamber

Anti-erosion of acids and alkalis and a longer working life as a result.

Efficient glass nebulizer

Adopting efficient glass nebulizer of Wu Family, providing you with higher nebulization efficiency and better popularity.

Mass flow controller makes the flow of C2H2 controllable

Making the C2H2 flow adjustable, monitoring the flow dynamically, ensuring it to be convenient and safe.

More safety protection measures, ensuring the reliability of the sample analysis

- (1) C2H2 leaking preventive measure
- (2) C2H2 pressure monitoring
- (3) Air pressure monitoring
- (4) Explosive-proof monitoring
- (5) Flaming burning monitoring

Background correction system

Deuterium lamp background correction: Be able to correct A1 background Self-absorption background correction: Be able to correct A1 background

With streamlined appearance using sheetmetal craftwork, it is fashionable and

Proprietary intellectual property rights and powerful activity manager

Humanized operation interface makes your operation easy, the interface of the software can be switched automatically between English and Chinese. Full automatic qualitative and quantitative analysis can calculate element contents and generate report automatically.











AAS6000 Configurations:

Mainframe Standard Equipment								
Monochomator 1Set	Burner head 1Set							
Photomultiplier tubes 1	Atomizing chamber 1Set							
Mass flow controller 1	Efficient glass atomizer 2Set							
Hollow cathode lamp 3	Circuit control system 1Set							
Standard Confifurations								
AAS6000 mainframe 1set	Accessory Box 1Set							
Optional components								
Oil-free air compressor with lower noise	Hydride generator HG600							
136 Autosampler As100	Brand computer, Printer							
Power requirements								
Single-phase220V±10% 50HZ±1HZ	The power supply shall be well connected to ground							
Gas								
Acetylene (standard)	Pureness > 99.9%							

Test example:

The case below is an example of Skyray AAS6000's analysis of Cu content in waste copper samples.

The way to analyze Cu is flame atomic absorption, without background correction system. Set lamp current as 2 mA, slit as 0.2 nm and wavelength 324.8 nm. After the position optimization of burning chamber and slight adjustment of lamp bracket, automatic gain atomic absorption energy reaches 80%, and negative high voltage is 221.56V.

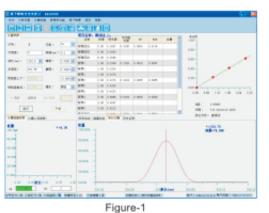
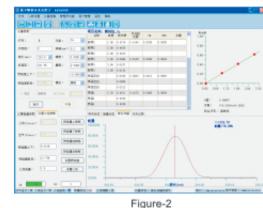


Figure-1shows setting results of display instrument and the standard testing curve.



As is shown in Figure-2, it is very convenient to see the display of result and the information of analysis. According to the test result, AAS flame analysis method is scientific, rational, accurate and of good repeatability.

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