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- Spectroscopy
- Chromatography
- Mass Spectrometry

EDX 3600H
Alloy Analyzer

99 countries & regions are using Skyray Instrument up to now

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EDX 3600H
Alloy Analyzer

The World’s Most Advanced Alloy Analyzer

Skyray Instrument is a professional manufacturer of high-performance X-ray Fluorescence Spectrometry. The high-performance desktop XRF alloy analyzer EDX 3600H, brought up in 2011, is equipped with globally advanced alloy analysis technology and intelligent vacuum system. Because of the low-energy light tube and vacuum system, it efficiently reduces testing interference, and improves testing resolution of light elements and testing effects of trace elements, such as Al, Si, P, etc.

Mainly applies in alloy products, such as cuprumalloy, ferroalloy, nickel alloy etc.

Product Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>200W</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>15°C-30°C</td>
</tr>
<tr>
<td>Sample chamber size</td>
<td>320mm×100mm</td>
</tr>
<tr>
<td>Weight</td>
<td>65Kg</td>
</tr>
<tr>
<td>Voltage input</td>
<td>AC 220V (Optional: 110V)</td>
</tr>
<tr>
<td>Ambience humidity</td>
<td>35%-70%</td>
</tr>
<tr>
<td>Instrument dimension</td>
<td>665mm×510mm×350mm</td>
</tr>
</tbody>
</table>

Technical Specifications

- Measurable range: Na to U
- Analytical range: ppm—99.99% (different materials, with different analytical range)
- Ability of simultaneous analysis: Once for tens of elements.
- Precision: 0.05% (content 95%)
- Testing time: 60s-200s
- Resolution: ≤0.154keV
- Tube voltage: 5kV-90kV
- Tube current: 50μA-1000μA

Test Case

<table>
<thead>
<tr>
<th>Element</th>
<th>Cu</th>
<th>Pb</th>
<th>Fe</th>
<th>Sn</th>
<th>Al</th>
<th>Ni</th>
<th>Mn</th>
<th>Si</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content</td>
<td>58.0531</td>
<td>3.0007</td>
<td>0.3606</td>
<td>0.0002</td>
<td>0.2387</td>
<td>0.2397</td>
<td>0.0002</td>
<td>0.0019</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Element</th>
<th>Sb</th>
<th>Co</th>
<th>P</th>
<th>S</th>
<th>Zn</th>
<th>Bi</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content</td>
<td>0.0002</td>
<td>0.0008</td>
<td>0.0098</td>
<td>0.0005</td>
<td>37.0130</td>
<td>0.3411</td>
<td>0.0052</td>
</tr>
</tbody>
</table>

Standard Configuration

- High efficient super-thin window x-ray light tube
- High-performance electronic cooling UHRD detector
- Signal-to-Noise Enhancer
- CMOS HD camera
- Collimator and filter
- Triple safety protection mode
- 50mm×70mm LCD
- Vacuum pump

Performance Advantages

- High efficient super-thin window x-ray light tube, which is specially developed for alloy testing, reaches the international advanced level.
- Silicon Drift Detector (EDD), provides better energy linearity, resolution, spectrum characteristics and higher peak to base ratio.
- Skyray’s patent—Signal-to-Noise Enhancer (SNE), improves the signal processing ability by 25 times or more.
- Built-in CMOS HD camera
- Automatic switch of collimator and filter according to different samples, it eliminates the troublesome manual operation.
- Heavy x-ray protection design
- [1] Mechanical protection: segregate x-ray
- [2] Electrical protection: Automatic shut down of x-ray when opening the cover during testing
- [3] Software protection: Automatic shut down of software program when opening the cover during testing
- LCD screen directly shows the important parameters: pipe pressure, pipe flow and vacuum degree
- 2L vacuum pump

Specialized in Alloy Testing

- EDX3600H alloy analyzer is developed by Skyray for alloy testing
- It features high precision, fast testing speed and easy operation etc
- It has functions of qualitative and quantitative testing
- Testing samples include all alloy or metal components, from Na to U

The test results of the hazardous element Pb

Components