

## Analytical Technologies EDXRF 3036H



### **Instrument introduction**

The halogen-free plan with the new round environmental protection tide is the afforested policy which is greatly promoted by International Green and Peaceful Organization and supported by numerous international environmental protection organizations and international large-scale companies. The European Union 2002/95/EC Instruction, "Montreal Protocol", "the Stockholm Treaty" and the board material laws and regulations of National Electrician Committee (IEC) have restricted on the halogen material. And, IEC 61249-2-21 in IEC laws and regulations stipulates that the maximum limit of chlorine, bromine and the overall halogen is: bromine and chlorine is less than 900ppm respectively; (bromine + chlorine) is less than 1500ppm. ATL specializes in high-performance X-ray Fluorescence Spectrometers in the world. EDXRF 3036H, desktop, Non-halogen analysis spectrometer, introduced in 2009, is of high performance and high-technology halogen testing instrument. The technology, adopting the worldwide leading non-halogen analysis technology, equipped with the best intelligent vacuum system for non-halogen testing and using low energy X-ray to excite light element, thus solve testing problem of chlorine and bromine. The instrument can detect any products containing hazardous substance halogen. In addition, it can be used in all element and RoHS analysis. The instrument is of multi-functional and can meet the international newest standard.

## Performance characteristics

Made in USA, halogen testing, X-ray tube of high efficient; the specification reaches the international advanced level. Special accessories are developed for testing halogen element (especially chlorine element) A3100 detector, excellent energy linearity, energy resolution and energy spectrum characteristics. Higher peak-to-background ratio. Analytical Technologies instrument patent product-Signal-Noise-Enhancer (SNE) improves the signal processing ability up to 25 times. Low energy X-rays are used, delivering good results when exciting light elements such as Cl, Br. Intelligent pumping vacuum system; shield air influence and enlarge testing scope. Auto spectrum stabilizer ensures the instrument working. High SNR electronic circuit unit.

Auto collimator and filter switch, exempt from trouble by manual. Spectrum unfolding technology decomposes the spectrum peak; ensuring Cl, Br and other light elements testing have the equal analysis accuracy. Multiple linear regression, reducing the inter elemental absorption and enhancement effect In-built CCD with high resolution LCD makes the important parameter (tube voltage, tube current, vacuum) of the instrument obvious.

## Technical specifications

Measurable elements: Na to U. Element contents: 1ppm—99.99% Ability of simultaneous analysis: Simultaneously analysis of 24 elements. Plating thickness: up to 0.005um each layer; it is able to analyze plating with more than 3 layers. Analysis accuracy: 0.05% Measurement time: 60s-200s Energy resolution: ( 150±5 ) eV Tube voltage: 5KV-50KV Tube current: 50uA-1000uA Forms of samples: powder, solid and liquid

## Standard configurations

Halogen testing, X-ray tube of high efficiency. S100 detector Signal-Noise-Enhancer SNE Special accessories for halogen testing Light path enhancement system High SNR electronic circuit unit In-built high resolution CCD Automatic collimator and filter switch Auto spectrum stabilizer Triple safety protection model Independent matrix effect correction model Multi-variable non-linear regression procedure Overall steel support structure 90mm\*70mm LCD

## Application fields

Non-halogen testing All element analysis RoHS testing Plating thickness

