TORONTECH

PEDX COAT PLATING SOLUTION ANALYZER

The PeDX COAT Plating Solution Analyzer serves the purpose of electroplating solution detection.

As a fundamental industrial process technology, electroplating finds wide application in various industries. The quality of electroplated parts significantly impacts product quality. The electroplating solution stands out as a pivotal factor influencing this quality.

The quality of the electroplating solution can alter coating characteristics and the time required for plating to achieve the desired thickness. Moreover, the electroplating process can modify the composition and impurity levels within the solution.

Hence, it is imperative to regularly analyze the chemical composition of the electroplating solution. This analysis ensures the correct composition and safeguards the electroplating tank from corrosion caused by the solution.

It allows for direct measurement of multi-layer coating thickness and material analysis without requiring digestion or dilution of the electroplating solution. Additionally, it facilitates quantitative and qualitative analysis of element composition in samples. The PeDX COAT Plating Solution Analyzer finds extensive application in industries such as medical devices, electronic equipment, semiconductors, hardware products, and more.

APPLICATIONS

PeDX COAT Plating Solution Analyzer – Electroplating Wastewater

Metal Content in Electroplating Wastewater

Monitors and quantifies heavy metal concentrations in wastewater streams to ensure compliance with environmental regulations.

PeDX COAT Plating Solution Analyzer – Bath Solution Composition

Composition Analysis of Electroplating Bath Solution

Provides precise chemical composition analysis of plating baths, supporting stable production quality and optimized processes.

FEATURES

One-click intelligent operation

The entire analysis process can be finished in mere seconds. Its operation is straightforward, making it accessible even to non-technical individuals.

Easy customization

Based on testing results, it offers a range of customizable settings. Users can adjust test conditions to suit detection requirements or alter thresholds for screening purposes. This enables personalized screening of various materials and elements according to specific needs.

Multiple forms of data output

Analytical data reports can be generated in either PDF or Excel format. When exporting data in Excel format, users have the option to review and edit the data directly within the table. Additionally, users can create customized professional reports, incorporating elements like company logos, addresses, test results, spectrograms, and other sample information such as product descriptions, origin, and batch numbers.

Accurate and reliable qualitative and quantitative methods

By integrating advanced algorithms such as the super-FP algorithm and correction curve method, the instrument achieves faster speeds, higher accuracy, and increased consistency in measurements.

TECHNICAL SPECIFICATIONS

Weight	4.1KG
Size of Mainframe	200×200×268mm（L×W×H）
Size of Sample Room	170×130×60mm（L×W×H）
Excitation source	Up to 50kV, 200uA X-ray tube, upper excitation power 4W, Ag/Rh target
Element range	Mg—U
Operation System	Based on the I. MX 6 Quad， quad-core Cortex-A9 processor Dedicated analytics operating system, 32GB of system memory
Data Transfer	USB, Bluetooth, WIFI, can connect the device to the Internet, remote setting and maintenance of the instrument
Resolution	<136eV
Operating Ambient Temperature	-20℃~50℃

Operating Ambient Humidity	10%~90% relative humidity, non-condensing
Display	5.7-inch absorbable color touch screen display
Test Time	User customize
Optional	Built-in 5-megapixel HD camera
Language	English, etc

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