

GOLD EXPERT

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Precious Metals Tester
X-ray Fluorescence Spectrometer



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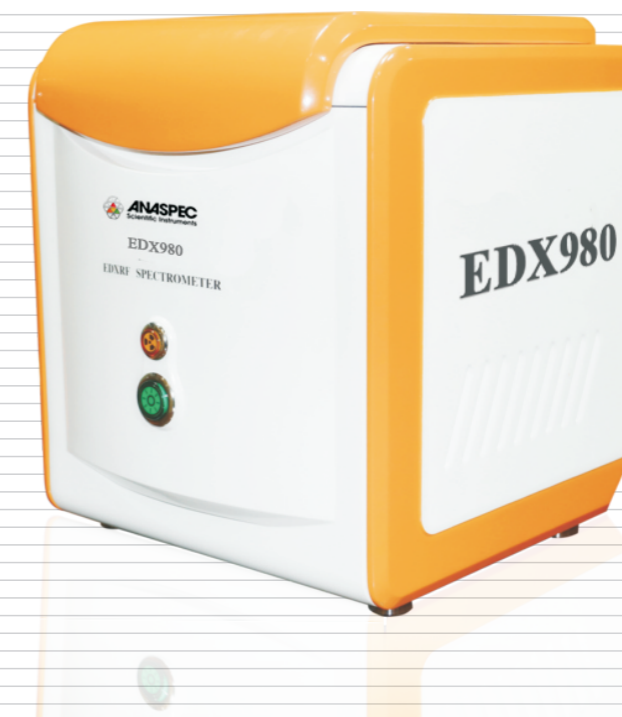
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EDX890

Precious Metals Testing X-ray Fluorescence Spectrometer

Precision Instruments Skyray Elaborates



Precious metals testing
Au, Ag, Pt, Pd, etc



EDX890, a specialized precious metals tester, is capable of measuring inner walls of the circular samples as well as conducting common planar testing.

Its features are:

- ◆ Small and light;
- ◆ Elegant and attractive ;
- ◆ Manual lift platform for measuring samples of different sizes;
- ◆ Simple ways of sample holding ;
- ◆ Convenient to change the collimators ;
- ◆ The diameter of the collimator is as small as 1.5mm, making it possible to measure the micro area ;
- ◆ Bottom lightening structure
- ◆ Large window proportional counter, meeting the requirements of different applications ;
- ◆ Large sample chamber for measuring large samples ;
- ◆ Laser positioning of CCD permitting visualized positioning of samples ;
- ◆ Good radiation shielding capability protects the operators.



Application fields

- Mainly used for testing precious metals.



Core Technologies

- Large power X-ray tube
- Super large window proportional counter
- Small and elegant
- Large window proportional counter, meeting the requirements of different applications ;
- Manual lift platform for measuring circular samples of different sizes ;
- Small collimator enables the test of micro area
- Laser positioning CCD positions the test spot visually and accurately. The laser automatically stops when the measurement starts, which helps taking clearer pictures.
- Good radiation shielding capability guarantees the safety of the operators

Comparison of XRF method and other traditional methods

| Methods | Results |
|-------------------|--|
| Touchstone | Too subjective to be scientific and reliable |
| Gravity | Purity of the reference materials is hard to determine |
| Chemical Analysis | High cost, complex of use and destructive to the samples |
| XRF | Rapid, non-destructive, scientific and reliable |



Technical specifications

- Analysis range: 1ppm to 99.9%
- Arbitrary optional analysis and identification models
- Independent matrix effect correction models
- Multi-variable non-linear regression procedure
- Repeatability: 0.1%
- Stability: 0.1%
- Power supply: AC 220V±5V
- Measurement time: 60-200S
- Tube voltage: 5-50KV
- Tube current: 50-1000µA
- Ambient temperature: 5°C-30°C



Standard configurations

- Proportional counter
- 50W X-ray tube
- High voltage 50Kv@1mA
- Laser positioning CCD
- High sensitive signal detection circuit
- Manual lift platform
- Sample clamp
- Plasticine
- Collimator with diameter of 1.5mm



- ◆ Jewellery processing factories
- ◆ Jewellery stores
- ◆ Precious metals smelters
- ◆ Quality inspection administrations
- ◆ Analysis and Testing Centers
- ◆ Pawnshops

