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XRF SULFUR CONTENT TESTER AZA1300

The AZA1300 XRF Sulfur Content Tester from AZA LAB is a high-precision analytical instrument designed for rapid and accurate determination of sulfur content in petroleum products, petrochemicals, fuels, lubricants, and coal chemical samples.

Based on advanced Energy Dispersive X-Ray Fluorescence (EDXRF) technology, the AZA1300 integrates modern electronics, microprocessor control, precision optics, and intelligent correction algorithms to deliver highly reliable sulfur analysis with excellent repeatability and reproducibility.



ADVANCED ANALYTICAL PERFORMANCE

The AZA1300 provides highly stable analytical performance through:

- Precision fluorescence intensity measurement
- Intelligent calibration algorithms
- Automatic correction for:
 - Temperature
 - Atmospheric pressure
 - Carbon/Hydrogen ratio (C/H ratio)

This significantly improves accuracy across varying petroleum sample types.



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AUTOMATIC SAMPLE ANALYSIS

The system supports fully automated single-sample analysis.

SELECTABLE TEST TIMES

- 60 seconds
- 120 seconds
- 240 seconds
- 300 seconds
- 600 seconds

AUTOMATIC FUNCTIONS

- Multiple repeat measurements
- Average value calculation
- Standard deviation analysis
- Result storage
- Automatic data processing

Selectable repeat cycles:

- 2 times
- 3 times
- 5 times
- 10 times
- 50 times



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TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Model	AZA1300
Technology	Energy Dispersive X-Ray Fluorescence (EDXRF)
Standards Compliance	ASTM D4294, GB/T 17040, SH/T0742, GB/T11140
Measuring Range	17 ppm – 5%
Detection Limit	50 ppm
Repeatability (r)	< 0.02894 (X + 0.1691)
Reproducibility (R)	< 0.1215 (X + 0.5555)
Sample Quantity	2.5 ml
Sample Depth	4.5 mm
Measurement Time	60 / 120 / 240 / 300 / 600 s
Calibration Curves	9 Curves (5 Linear + 4 Quadratic)
Display	Large LCD
Data Interface	RS232