

X-ray Fluorescence Sulfur in Oil Analyzer

This X-ray fluorescence sulfur in oil analyzer determines total sulfur content in oil samples. The instrument uses X-ray fluorescence technology to provide rapid, non-destructive analysis.



Overview

Precision Sulfur Analysis

The X-ray Fluorescence Sulfur-in-Oil Analyzer is a high-precision instrument designed for the rapid determination of total sulfur content in petroleum products. Utilizing advanced energy-dispersive X-ray fluorescence technology, it offers reliable analysis for crude oil, heavy oil, diesel, gasoline, and naphtha. This integrated system ensures compliance with international standards such as GB/T 17040, GB/T 11140, and ASTM D4294-03, making it an essential tool for quality control in petrochemical production.

Performance Metrics

Measurement Range

7 ppm

Min Range

5 %

Max Range

Precision Standards

| Metric | Formula |
|-----------------|----------------|
| Repeatability | <0.029 (S+0.6) |
| Reproducibility | <0.063 (S+0.6) |

Technical Specifications

Sample Requirements

- Sample quantity: 2 to 3 ml
- Sample depth: 3 to 4 mm

| | |
|-------------------|-----------------------------|
| Measurement Times | 60s, 120s, 240s, 300s, 600s |
| Power Supply | AC 220V±20V, 50 Hz |
| Rated Power | 30 W |

Physical Characteristics

| | |
|------------|--------------------------|
| Dimensions | 468 mm × 368 mm × 136 mm |
| Weight | 13 kg |

Features

Key Features

Energy-dispersive principle • Automatic temperature/pressure correction • Self-diagnostic function • RS232 Connectivity • X-ray radiation protection • Thermal printer included

Operating Environment

Operating Conditions

- Temperature: 5 to 40
- Relative humidity: d85% (at 30)