

# 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 )