

X-RAY FLUORESCENCE SULFUR CONTENT APPARATUS



X-ray Fluorescence Sulfur Content Apparatus TT-4294

X-ray Fluorescence Sulfur Content Apparatus TT-4294 has long been the preferred choice in the petroleum industry. Continuous enhancements in performance and usability enable us to provide an improved instrument tailored to meet your needs.

Our XRF sulfur analyzers adhere to ASTM D4294 Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-ray Fluorescence Spectrometry, offering the most cost-effective solution for measuring sulfur in petroleum.

APPLICATIONS

1. Our sulfur in oil analyzer can measure various petroleum products including crude oil, heavy oil, diesel, kerosene, gasoline, naphtha, and more.
2. Additionally, it is capable of testing coal chemical products, such as determining the total sulfur content in primary benzene.
3. Moreover, it can analyze the total sulfur or sulfide content in other liquid, solid, or powder samples.

FEATURES

- The analyzer features electromechanical integration design for computerization, with a large screen LCD display and intuitive man-machine dialogue operation, creating a concise and visually appealing interface.
- It offers a wide measurement range, rapid detection speed, and minimal sample consumption.

- We utilize the Fluorescence intensity ratio analysis method, enabling calibration for temperature, atmospheric pressure, and carbon-hydrogen ratio (C/H).
- Utilizing disposable sample cups helps prevent cross-contamination. Additionally, users can record sample batch numbers and S%(m/m) dates.
- The sample platform location is highly accurate, making it easy to insert or replace oil samples.
- With ample storage capacity for at least 1000 test data, users can easily access content detection results and calibrated curves at any time.
- The analyzer comes equipped with a thermal printer for convenient printing of results.
- Featuring a standard RS-232C interface, the analyzer can be seamlessly connected to any PC for data transfer and analysis.

TECHNICAL SPECIFICATIONS

1. Measuring range: 7 ppm to 5%.
2. Accuracy:
 - a. Repeatability (r): $<0.02894(x+0.1691)$
 - b. Reproducibility (r): $<0.1215(x+0.05555)$
3. Sample volume: 2 to 3 ml (sample height 3 mm to 4 mm).
4. Measuring period: 60, 120, 240, 300, 600 seconds; Arbitrary setting.
5. Single sample auto test measured times: 2, 3, 5, 10, 50; Arbitrary setting. It can provide average (AVG) and standard deviation at the end of each measurement.
6. Calibrated curve: Our analyzer can store 9 calibrated curves, comprising five linear lines with one unknown and four binomial parabolas.

7. Working conditions:

- Temperature: 5°C to 35°C
- Humidity: ≤85% (at 30°C)
- Power supply: AC 220V ±20V, 50Hz
- Power consumption: 30W

Included Accessories

1. Sample cell (three parts): 200sets,
2. Sample cell film (6¼m Mylar) 200pics
3. Leakage protection device (two parts)
4. Multifunctional pressure shaping device (two parts)
5. Dust shield of leakage protection device
6. Printing paper (57 mm in width: 30mm)
7. Calibration sample (10ml/piece)
8. Power supply wire (250V/6A) 1piece
9. 3ml pipette 200 pieces

X- RAY calibration sample

Light oil	Heavy oil
0ppm	2ppm

5ppm	5ppm
50ppm	50ppm
100ppm	100ppm
150ppm	150ppm
200ppm	200ppm
350ppm	350ppm
500ppm	500ppm
700ppm	700ppm
1000ppm	1000ppm
2000ppm	2000ppm
3000ppm	3000ppm
5000ppm	0.50%
10ml/piece	0.70%
	1.00%
	2.00%
	3.00%
	5.00%
	10ml/piece



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