



# SPECTROLAB

Oxford House, 20 Oxford St Newbury, Berkshire. RG14 1JB UK. Offices in UK, EU, Greece, Dubai

[sales@spectrolab.eu](mailto:sales@spectrolab.eu) [sales@spectrolab.co.uk](mailto:sales@spectrolab.co.uk)

## The RX-6000 Sulfur in Oil Analyzer

### For the analysis of Sulfur in Oil and other elements from S to U



Spectrolab Model RX-6000 Sulfur in oil Analyzer.  
A unique portable desk top EDXRF analyzer

#### Features

- Responsive, bright, color touch screen display
- Uses latest Silicon detector systems for ultra fast, accurate analytical times
- Portable or desk top operation
- One-button operation for fast accurate analysis
- Accurate determination of Sulfur in oil and in other petrochemicals or liquids.
- Multi element analyzer
- Small compact and inexpensive
- Identify and characterize a wide range of materials

Quickly and easily create result certificates

Safe and secure closed-beam system that requires minimal training.

A unique compact instrument taking up minimal desk space.

Can be networked for easy access to testing results as they are being generated.

### **Nondestructive analysis**

XRF is a widely used, proven and accepted method of chemical analysis used for the determination of purity and quantity of precious metals or elements in any type of sample including both solids and liquids, films, coatings, powders or gels. XRF analysis is a multi-elemental testing alternative to optical emission methods and is also quicker and less expensive. XRF provides on-the-spot analysis of trace elements in a variety of samples including the analysis of Sulfur in Oil satisfying the requirements of a number of assay standards including **ASTM D4294 – ISO8754 – B7995**

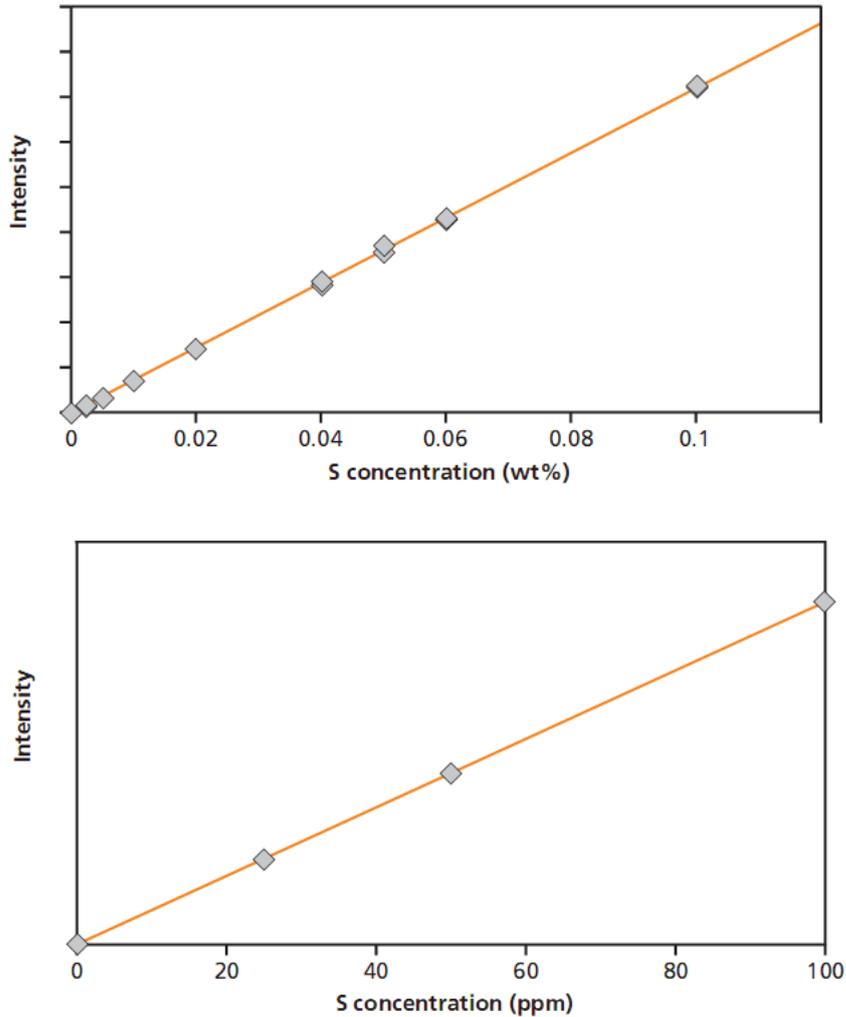
Blank(Oil)200s		2500ppm(standard)200s	
Measure times	intensity	Measure times	Intensity
1	37.65	1	180.445
2	37.705	2	181.735
3	37.165	3	181.865
4	37.485	4	180.685
5	37.5	5	180.7
6	37.765	6	180.635
7	37.46	7	182.88
<b>Average</b>	37.53	<b>Average</b>	181.28
<b>Standard deviateion</b>	0.19	<b>standard deviation</b>	0.84
<b>3s</b>	0.56	<b>3s</b>	2.51
<b>RSD(%)</b>	0.49%	<b>RSD(%)</b>	0.46%
<b>Detection limit of Sulfur in oil=9.8ppm</b>			

### Spectrolab RX6000S Series Test performance

#### 1. Calibration Instrument parameters

Instrument	RX 6000
Tube Voltage	7Kv
Tube current	6mA
Collimator	8mm
Filter	none
Purge	None
Time	100-300 Secs
Software	Standard calibration

## Simple , fast Sulfur in oil Calibration



Calibration range from 0.01%-0.1%

*Note the excellent linear relationship between concentration of Sulfur and instrument values*

### Customized Reporting

Data can be exported easily to a spreadsheet format, and the integrated memory can be accessed remotely when the SS6000 is networked via its Windows CE operating system. Customized results and reporting certificates including analytical results, an image of the tested sample, the company logo, and more, can be generated via the optional PC Software with the click of a button.

**Accessories:**

Sample cup for liquids and powders

Ring holder

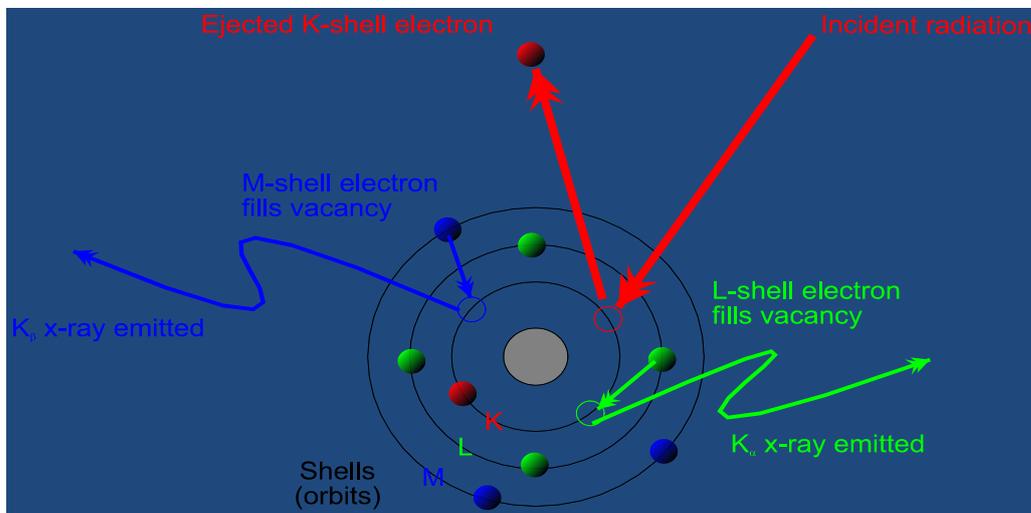


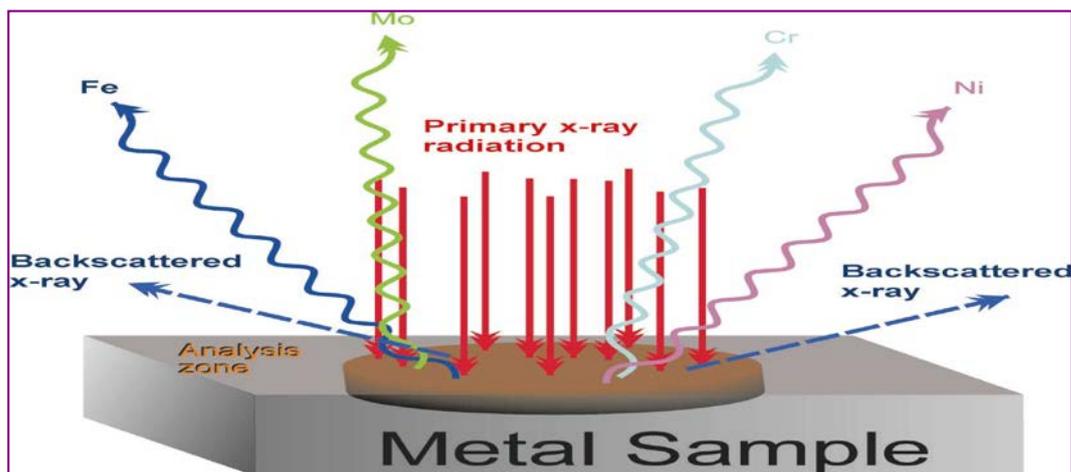
Contamination free Sample cups

## Who needs an RX-6000

The RX-6000 series is recommended for refiners who need the utmost in analytical precision and fast reading times. The RX-6000 series is also recommended for general lab analysis as well as a portable desk top analyzer for use in the field. The RX-6000 series is the latest model Sulfur in Oil analyzer and the most sensitive instrument available

### How XRF works





X-rays have a unique ability to ionize or “excite” elements present in materials including oil. When elements such as Sulfur have been ionized by X-rays the electrons quickly return to a relaxed or stable state. In so doing they will emit fluorescent photons whose energy levels are “signatures” of specific elements present. Spectrolab XRF analyzers utilize this phenomenon by imaging ionizing x-rays onto a sample and measure the energy levels of the returning fluorescent x-rays (the elements’ “signature”), The quantity and energy of X-rays measured determines the relative concentration of each individual element present.

The onboard microprocessor then provides a complete elemental analysis of the sample and displays it on to a high brightness screen. All of this is done in just a few seconds, The analyzed results are stored in an Excel test report.

### The analysis of Sulfur in Oil has never been easier

Spectrolab Xray analyzers

Hand Held XRF

Portable XRF

Wavelength Dispersive XRF

Energy Dispersive XRF

Dedicated Gold and Jewelry analyzers

Visit our growing web site @

[www.spectrolab.co.uk](http://www.spectrolab.co.uk)



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