

XRF SPECTROMETER

XRF 3320S Plus



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Specification

Sulfur is a hazardous element, both mechanically and environmentally. Sulfur causes corrosion and rust on metallic parts in engines and the emission of sulfur dioxides into the air is a big environmental concern. Consequently, many Environmental protection agencies have issued strictly controlled sulfur emission limits for petroleum industry, automobiles and domestic applications.

The permitted levels of sulfur in both and gasoline fuels is decreasing rapidly each year.

XRF 3320S Plus XRF spectrometer is another more efficient and intelligent sulfur analyzer after the launch of XRF 3320S plus.

XRF spectrometer are used for regular sulfur analysis in petroleum products even at the low concentration levels in ppm range. without compromise on the precision of the analysis. Besides, XRF technology is a nondestructive and rapid analytical method.

Smaller Test Chamber, Lower Costs
Closer Test Distance, Higher Accuracy

►► Application fields

Petro-chemical, crude oil exploitation, liquid element analysis

►► Features

- Small and smooth, simple but elegant. The silver light appearance demonstrates splendor.
- Super small sealed helium gas sample chamber saves gas consumption and reduces test costs.
- Close sample test distance improves test accuracy.
- Rapid analysis, with test result delivered within 50s at minimum.
- The same sample test height ensures test accuracy, saves standard and needs no special sampling tools.
- Top lighting design avoids X-ray tube and Be window of the detector to be polluted by sample volatilization. It can test light oils like gasoline, diesel with higher accuracy.
- High excitation efficiency side-window W Target X-ray tube, large area Si-Pin detector with good dissipation capability ensure the high test stability.
- X-ray radiation shielding design ensures operators safety during operation.

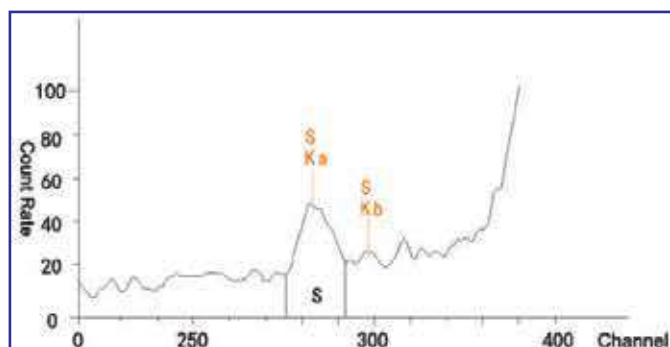
►► Standard configurations:

Helium gas sealed sample chamber	Si-Pin detector	Signal detection circuit
High-low voltage power supply	Open sample platform	X-ray tube
Intelligent sulfur test software	PC and ink-jet printer	

►► Technical Specifications

Function	Oil elements analysis	Working voltage	AC 110V/220V
Analysis range	3ppm-99.99%	Working temperature	10-35°C
Limits of detection	10ppm (reach 3ppm under the He condition)	Sample cup volume	Φ424mmx22mm
Test time	50-100s	instrument Size	370mmx360mmx418mm
Formas of object	liquid	Weight	32kg

Test Spectrogram of Gasoline Sample with S content of 70ppm



Test for 200s

Test Result

Test Times	S content (ppm)
1	71.8
2	69.5
3	69.7
4	70.3
5	68.4
6	69.3
7	70.8
Mean Value	69.54286
Standard Deviation	1.66819
RSD	2.398794

It can be seen from above test results that this light oil is of good stability, meeting the requirements of national IV level.

►► Regulatory compliances



►► Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

►► Reach us @



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