ALROSA GROUP

INNOVATION CENTER

BOUREVESTNIK

RESEARCH ✦ DESIGN ✦ PRODUCTION

ASE-2 and ASW-2 Sulfur Analyzers

ASE-2 XRF Energy Dispersive Sulfur Analyzer

Range of determined sulfur concentrations – from 5 mg/kg to 5 %

Measurement process meets ASTM D4294, ISO 20847

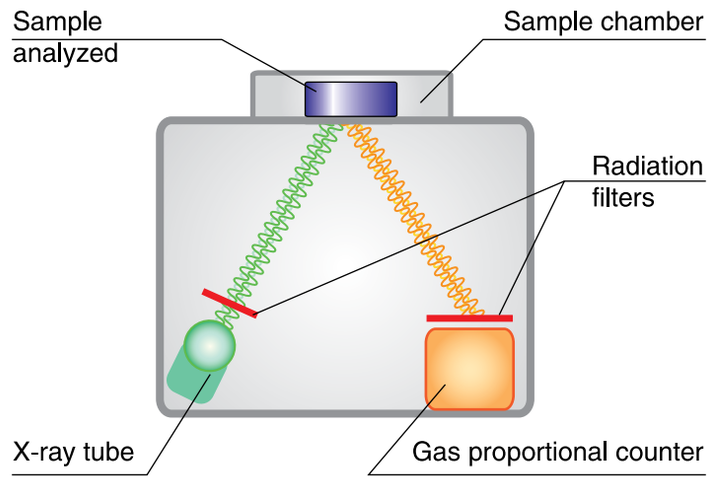
Helium is not required

Connection to PC

LIMS integration

The energy dispersive sulfur (EDX) analyzer for determination of sulfur mass fraction in petrochemicals is according to: EN ISO 20847:2004; ASTM D4294; ISO 13032:2012; EN ISO 8754:2003

Fully radiation-protected.



X-ray fluorescence energy dispersive sulfur analyzer ASE-2 is used for the measurement of mass concentration of the sulfur in unleaded gasoline, diesel oil, crude oil, kerosene, petroleum residues, lubricating oil, hydraulic oil, jet engine fuel and other types of cutter oil.
X-ray radiation of low-powered X-ray tube converted by primary radiation filter excites atoms fluorescence radiation of the sample being analyzed. Radiation beams (primary X-ray radiation scattered on the sample and secondary fluorescence one) are fed to the gas proportional counter; in this case the fluorescence radiation of sulfur atoms (SKα) is separated from radiation of other energies with the help of selective filters. Intensity of fluorescence radiation of sulfur atoms registered by the gas proportional counter is proportional to sulphur mass fraction in the sample.

Technical data

Sulfur mass fraction determination method	X-ray fluorescence energy dispersive sulfur (EDX) analyzer with selective filters
Statistic limit of detection, max., ppm	3
Range of determined sulphur concentrations, ppm	5 - 50000
Limits of basic relative error, %	±0.5
Power consumption, W (220 ACV, 50 Hz mains)	60
Instrument weight, max, kg	12
Overall dimensions (LxWxH), mm	430x350x200

ASW-2 XRF Wavelength Dispersive Sulfur Analyzer

Range of determined sulfur concentrations – from 3 mg/kg to 5 %

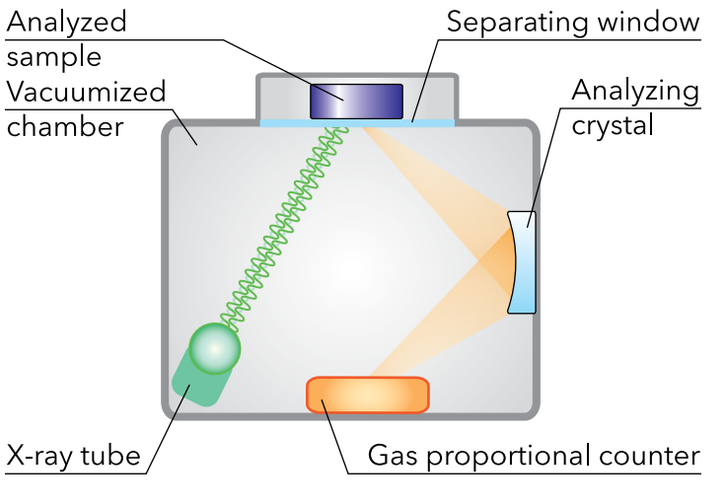
Vacuumized measurement chamber, helium purging is not required

Helium purging option is avalible

Touch screen display

LIMS integration

Results storage



The wavelength energy dispersive sulfur (WDX) analyzer for determination of sulphur mass fraction in petrochemicals is according to:
EN ISO 20884:2004; ASTM D 6334, ASTM D 2622

Fully radiation-protected.

X-ray wavelength dispersive sulfur analyzer ASW-2 is used for the measurement of mass concentration of the sulfur in unleaded gasoline, diesel oil, crude oil, kerosene, petroleum residues, lubricating oil, hydraulic oil, jet engine fuel and other types of cutter oil.
Analyzer ASW-2 allows to measure mass concentration of the sulfur in vacuumized measurement chamber mode, as well as in helium purging mode. For this purpose the instrument is equipped with the set of tooling for the connection to helium station.

Technical data

Sulfur mass fraction determination method	X-ray fluorescence wavelength energy dispersive (WDX) analyzer with vacuumized chamber
Statistic limit of detection, max., ppm	1.5
Range of determined sulphur concentrations, ppm	3 - 50000
Limits of basic relative error, %	±0.5
Power consumption, W (220 ACV, 50 Hz mains)	250
Instrument weight, max, kg	45
Overall dimensions (LxWxH), mm - analysis unit - vacuum system	 450x415x530 320x320x150

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3, bld 1, Lyotchik Parshin st., 197350, Saint-Petersburg, Russia
www.bourevestnik.com

Marketing, Advertisement and Sales Department:
Tel.: +7 (812) 458-89-95, 458-86-48
E-mail: marketing@bv.alrosa.ru

Aftersales Service
Tel./Fax: +7 (812) 528-82-83
E-mail: quality@bv.alrosa.ru

Our partners

Bangladesh

Milestone Instruments
Telephone: +88027253468
E-mail: mstoneinst@gmail.com

India

AlfaTech Services
Telephone: +91-11-2544 6275 / 2544 6276
E-mail: alfatech@alfatechservices.com
www.alfatechservices.com

Smart Labtech PVT Limited
Telephone: +91 40-66783744, +91 40 66624394
E-mail: info@smartlabtech.net
smartlabtech.net

Indonesia

PT. Interlab Sentra Solutions Indonesia
Tel (6221) 77840996
E-mail: office@issi-interlab.com

United Arab Emirates

Pasteur Central Labs Ltd
Telephone: +971-2-4467034
E-mail: pasteur@emirates.net.ae
www.pcl-uae.com