

ASE-3 and ASW-3 Sulfur Analyzers



ASE-3 XRF Energy Dispersive Sulfur Analyzer



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.

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

Helium is not required. Helium option is available.

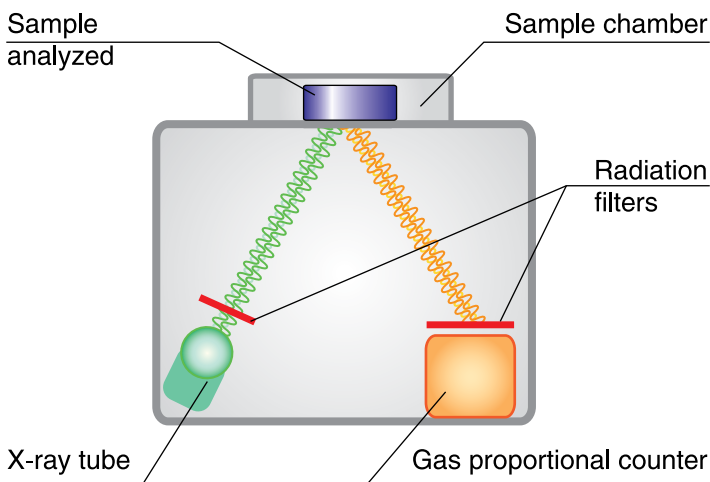
Touch screen display

Barcode scanner (optional)

LIMS integration and PC connection

Database for over 1000 results

Autosampler



X-ray fluorescence energy dispersive sulfur analyzer ASE-3 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. Radiation beams (primary X-ray radiation scattered on the sample and secondary fluorescence one) are to get to the gas proportional counter; in this case the fluorescence radiation of sulfur atoms ($SK\alpha$) 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
Number of samples installed into sample changer, up to	4
Power consumption, W (220 ACV, 50 Hz mains)	60
Instrument weight, max, kg	18
Overall dimensions (LxWxH), mm	483x423x209

ASW-3 XRF Wavelength Dispersive Sulfur Analyzer

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

Vacuumized measurement chamber, helium
purgig is not required

Helium option is available

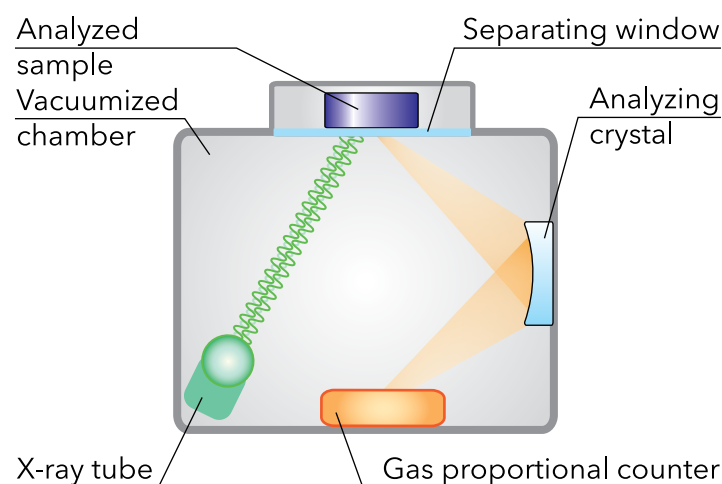
Touch screen display

Barcode scanner (optional)

LIMS integration and PC connection

Database for over 1000 results

Autosampler



X-ray wavelength dispersive sulfur analyzer ASW-3 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-3 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
Range of determined sulphur concentrations, ppm	3 - 50000
Limits of basic relative error, %	0.5
Number of samples installed into sample changer, up to	9
Power consumption, W (220 ACV, 50 Hz mains)	250
Instrument weight, max, kg	45
Overall dimensions (LxWxH), mm	
- analysis unit	570x462x369
- vacuum system	320x320x150



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.

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