Energy Dispersive X- ray Fluorescence Analyzer

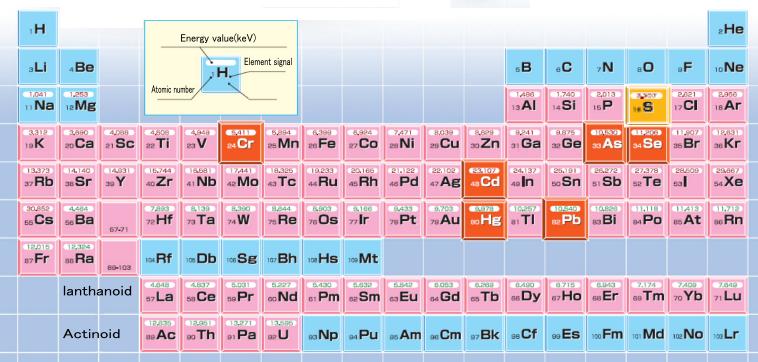
OUR 5TEX 160

Features

- 1. Small-sized and lightweight (21kg + 9kg), most suited analyzer for on-site analysis.
- 2. Quickly attainable nondestructive analysis of composition
- 3. Enhanced sensitivity targeting medium or heavy metal elements
- 4. Only AC100V 5A is used for utility. (No liquid nitrogen or cooling water)
- 5. No setting of controlled area is required.

SMALL-SIZED, LIGHTWEIGHT AND HIGH-SENSITIVITY ANALYZER EXCLUSIVELY USED FOR MEASUREMENT OF HAZARDOUS ELEMENTS





CONCENTRATION OF ELEMENTAL TECHNOLOGIES WITH HIGH-SENSITIVITY AND HIGH-PRECISION

The energy dispersive X-ray fluorescence analyzer irradiates a primary X-ray to a sample from its X-ray tube. The fluorescent X-ray generated by the analyzer is measured with a semi-conductive detector. Then you can conduct nondestructive qualitative and quantitative analyses of a sample, regardless of its shape.

With use of electronic cooling system Silicon Drift Detector (SDD) for semiconductor detection needing no liquid nitrogen, you can attain analysis of a high count rate and high resolution power in combination with Digital Signal Processor (DSP).

In order to enhance analytical performances, the analyzer is prepared to satisfy the conditions for optical excitation what can maximize energy resolution power and count sensitivity.

Compliance with the Soil Pollution Control Law

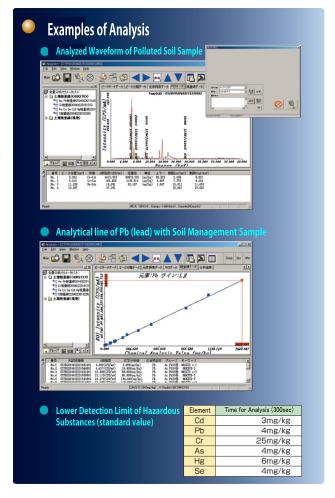
Following the enactment of "Soil Pollution Control Law" effective on February 15, 2003, the implementation of content test is also mandatory in addition to dissolution test.

with OUR STEX 160

you can make an on-site judgment easily and quickly about the standard value of heavy metal content because of its compactness and portability.

Designated Hazardous Substances and Criterion in Controlled Area (Excerpt in part)

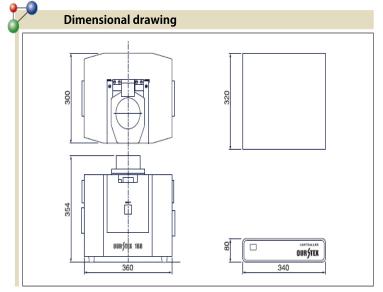
| Substances for Analysis | Element | Soil Elution Criterion | Soil Content Criterion |
|-------------------------------|---------|-------------------------|------------------------|
| Cadmium and its compounds | Cd | 0.01 mg/ ℓ or less | 150mg/kg or less |
| Lead and its compounds | Pb | 0.01 mg/ ℓ or less | 150mg/kg or less |
| Hexavalent chromium compounds | Cr | 0.05 mg/ℓ or less | 250mg/kg or less |
| Arsenic compounds | As | 0.01 mg/ ℓ or less | 150mg/kg or less |
| Mercury and its compounds | Hg | 0.0005 mg/ℓ or less | 15mg/kg or less |
| Selenium and its compounds | Se | 0.01 mg/ℓ or less | 150mg/kg or less |



Specifications

| Analytical principle | | inciple | Energy Dispersive X-ray Fluorescence Analyzer | | |
|-------------------------------|-------------|----------------------|--|--|--|
| Analytical object | | bject | Environmental samples (solid, powder and liquid) for soil analysis | | |
| Element to be analyzed | | analyzed | S, Cr, As, Se, Cd, Hg, Pb (13Al to 92U) | | |
| Filtration mechanism | | hanism | Primary filter (3 types) / Secondary filter – Auto change for one type only | | |
| Shape of sample chamber | | chamber | 78 mm φ x 55 mmH | | |
| Environment of sample chamber | | ple chamber | Atmospheric | | |
| Rated X-ray output | | output | 48kV, 2mA, 50W maximum | | |
| Detector | | | Electronic cooling Silicon Drift Detector | | |
| Counting circuit | | ircuit | Digital processing type | | |
| Conditions of use | Temperature | 5 to 27℃ | | | |
| | Humidity | 20 to 75% | | | |
| | Power suppl | AC100V, 5A (50/60Hz) | | | |
| | Facility | Grounding Class D | | | |
| Other (optional) | | onal) | Ink jet color printer and mouse Heavy metal sample for analysis management (for creation of analytical line) | | |

Before an implementation of OURSTEX 160, a notification to Labor Standards Supervision Office is required.



For your correct and safe use, please be sure to read the operation manual in advance.

Contact for Inquiry

The product specifications or designs in this literature are subject to change without notice for improvements.
The product colors may differ from actual ones due to printing.



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