Energy Dispersive X- ray Fluorescence Analyzer

OURSTEX 160 M

Features

- 1. Small-sized and lightweight, 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 AC230V 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



ıΗ	Energy value(keV)															2 He	
з Li	4 Be			, I	Elen	nent signal						5 B	6 C	7 N	8 O	9 F	10 Ne
1.041 11 Na	1.253 12 Mg		Atomic nur	mber								1.486 13 A	1.740 14 Si	2.013 15 P	2.307 16 S	2.621 17 CI	2.956 18 Ar
3.312 19 K	3.690 20 Ca	4.088 21 SC	4.508 22 Ti	4.949 23 V	5.411 24 Cr	5.894 25 Mn	6.399 26 Fe	6.924 27 CO	28 Ni	8.039 29 Cu	8.629 30 Zn	9.241 31 Ga	9.875 32 Ge	10.530 33 AS	11.206 34 Se	11.907 35 Br	36 Kr
13,373 37 Rb	14,140 38 Sr	14.931 39 Y	15,744 40 Zr	16.581 41 Nb	17,441 42 MO	18,325 43 TC	19.233 44 Ru	20,165 45 Rh	21,122 46 Pd	22,102 47 Ag	23,107 48 Cd	24.137 49 in	^{25,191} ₅₀ Sn	26,272 51 Sb	27,378 52 Te	28,509	29,667 54 Xe
30.852 55 CS	4.464 56 Ba	Lanthanoid 57-71	7.893 72 Hf	8.139 73 Ta	8.390 74 W	8.644 75 Re	8.903 76 OS	9.166 77 r	9.433 78 Pt	9.703 79 Au	9.978 80 Hg	10.257 81 T I	10.540 82 Pb	10.826 83 Bi	11.118 84 Po	11.413 85 At	11.712 86 Rn
12.015 87 Fr	12.324 88 Ra	Actinoid 89-103	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt				, v		,			
	Lanth	anoid	4,648 57 La	4,837 58 Ce	5,031 59 Pr	5,227 60 Nd	5,430 61 Pm	5,632 62 Sm	5,842 63 Eu	6,053 64 Gd	6,269 65 Tb	6,490 66 Dy	6,715 67 HO	6,943 68 Er	7,174 69 Tm	7,409 70 Yb	7,649 71 LU
	Acti	noid	12.635) 89 AC	12.951 90 Th	13.271 91 Pa	13.595 92 U	93 Np	94 Pu	95 Am	96 Cm	97 B K	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr

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

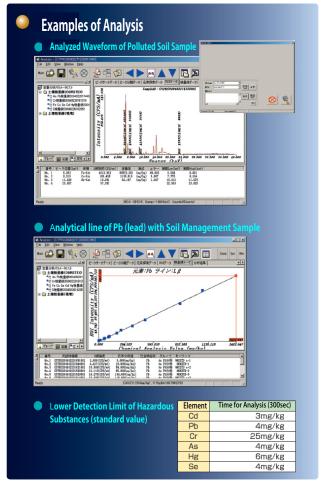
Following the enactment of "Soil Pollution Control Law" effective on February 15, 2003, the implementation of content test is also mandatory in addition to dissolution test.

with OUR STEX 160 M

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 **Energy Dispersive X-ray Fluorescence Analyzer** Environmental samples (solid, powder and liquid) for soil analysis Analytical object S, Cr, As, Se, Cd, Hg, Pb (13AI to 92U) Element to be analyzed Filtration mechanism Primary filter (3 types) / Secondary filter- Auto change for one type only Shape of sample chamber 31mm φ open end sample holder Environment of sample chamber Atmospheric Rated X-ray output 48kV, 2mA, 50W maximum Electronic cooling Silicon Drift Detector Detector Counting circuit Digital processing type Temperatu 5 to 27℃ Humidity 20 to 75% Conditions of use Power supply AC230V, 5A (50/60Hz) Facility **Grounding Class D** Ink jet color printer and mouse Other (optional) Heavy metal sample for analysis management (for creation of analytical line)

Dimensional drawing

OURSTEX 180M

OURSTEX 180M

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AND ADMINISTRATION AND ADMINIST

Before an implementation of OURSTEX 160M, 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



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