Skyray Instruments

Rapid | Accurate | Non-destructive

EDX 3600H

X-ray Fluorescence Spectrometer

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EDX3600H X-Ray Fluorescence Spectrometer is an all-in-one XRF capable of virtually any elemental application. EDX3600H comes standard with best in class UHRD or SDD detector and advanced vacuum system and can be used for multiple testing types including Mineral, Alloy, RoHS, Plating Thickness and custom applications.

complete elemental analysis with EDX 3600H

Software Options

- Full-elemental analysis- Na-U
- RoHS/WEEE Analysis
- Mineral Analysis
- Alloy Analysis
- Plating Thickness
- Custom calibrations for virtually any application

Standard Configuration

- Efficient super-thin window x-ray light tube
- High-performance electronic cooling UHRD detector
- Signal-to-Noise Enhancer(SNE)
- CMOS HD camera
- Automatic Collimators and filters
- Triple X-Ray protection
- Vacuum Pump

EDX3600H X-ray Fluorescence Spectrometer

Technical Parameters

Power: 200W
Ambient temperature: 15°C-30°C
Sample chamber size: 320mmx100mm
Weight: 65Kg

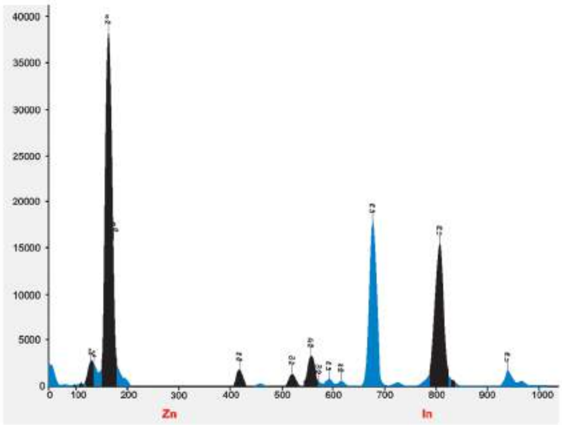
Voltage input: AC 220V (Optional: 110V)
Ambient humidity: 35%-70%
Instrument dimension: 660mmx510mmx350mm

Specifications

Measurable range: Na to U
Analytical range: ppm-99.99%
Simultaneous analysis: 20 plus elements
Precision: 0.05% (content 96% T)

Testing time: 60s-200s
Resolution: (140±5)eV
Tube voltage: 5KV-50KV
Tube current: 50 u A-1000 11 A

RoHS Analysis-Lead(Pb)

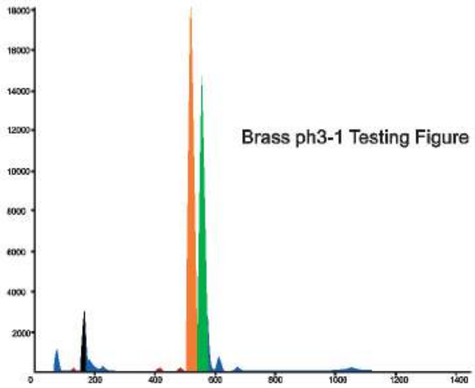


Repeatability

Name	Pb	Zn	Cu	Fe	Ca	Si	S	Mg	Al
1	53.62	5.05	3.56	10.11	1.19	3.98	14.16	0.28	0.27
2	53.45	4.95	3.48	9.91	1.28	3.37	15.30	0.32	0.26
3	53.32	5.15	3.49	9.89	1.32	3.54	15.23	0.20	0.26
4	53.84	5.13	3.29	9.94	1.26	3.46	14.98	0.35	0.24
5	53.42	5.07	3.88	9.69	1.25	3.37	15.36	0.61	0.25
6	53.79	5.09	3.46	10.10	1.24	4.12	15.48	0.29	0.28
7	53.23	5.04	3.48	9.97	1.28	3.84	14.98	0.44	0.26
8	53.31	5.06	3.64	9.66	1.19	3.21	14.65	0.52	0.24
9	53.80	5.13	3.54	9.76	1.34	3.94	14.32	0.42	0.27
10	53.19	5.01	3.31	9.82	1.27	4.16	15.04	0.37	0.26
11	52.86	5.34	3.67	9.24	1.60	3.72	14.16	0.43	0.29
Average value	53.44	5.09	3.53	9.83	1.29	3.70	14.88	0.38	0.26
Standard deviation	0.30	0.10	0.17	0.24	0.11	0.33	0.48	0.12	0.02
Relative standard deviation	0.57	1.96	4.68	2.48	8.64	8.90	3.25	30.37	5.87

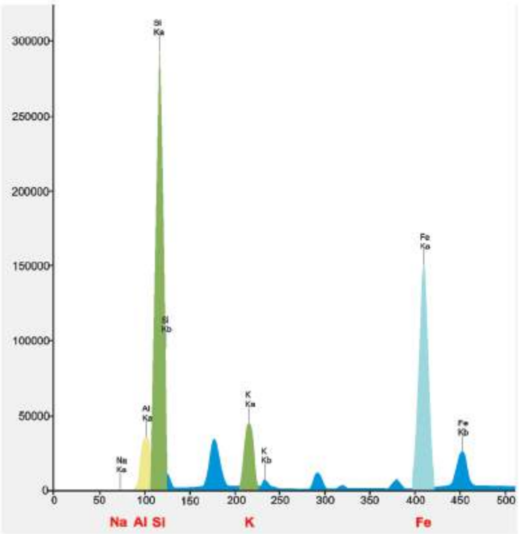
Alloy Analysis-Brass

Element	Cu	Pb	Fe	Sn	Ai	Ni	Mn	Si
Content	58.6531	3.0070	0.3866	0.0002	0.2287	0.2297	0.0002	0.0019
Element	Sb	Co	P	S	Zn	Bi	Cr	
Content	0.0002	0.0008	0.0098	0.0005	37.0130	0.3411	0.0052	

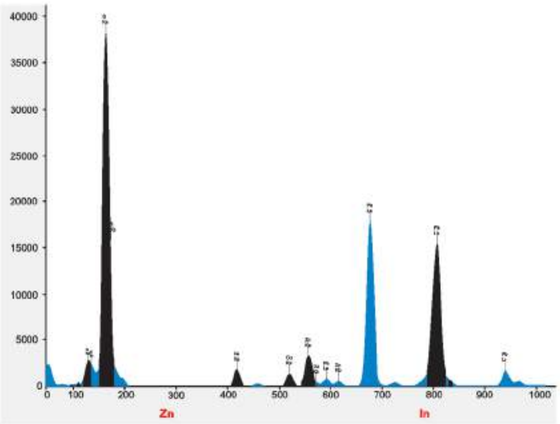

Brass ph3-1 Testing Figure

Analysis-Kaolin (Zn)

Name	Na2O	Al2O3	SiO2	Fe2O3	K2O
Kaolin-1	0.4775	16.3222	74.6662	4.8268	3.4161
Kaolin-2	0.5892	16.5028	74.6302	4.8413	3.4483
Kaolin-3	0.4711	16.4921	74.6794	4.8281	3.4532
Kaolin-4	0.5814	16.4986	74.6796	4.8460	3.4570
Kaolin-5	0.5375	16.4457	74.6653	4.8253	3.4422
Kaolin-6	0.5425	16.4979	74.6883	4.8258	3.4540
Kaolin-7	0.5494	16.4726	74.6485	4.8116	3.4443
Kaolin-8	0.4972	16.4997	74.7446	4.8327	3.4443
Kaolin-9	0.5439	16.5299	74.6029	4.8235	3.4394
Kaolin-10	0.4972	16.4562	74.6771	4.8126	3.4386
Kaolin-11	0.5773	16.5287	74.7196	4.8233	3.4478
Average value	0.5331	16.4769	74.6729	4.8270	3.4441
Range	0.1181	0.2076	0.1416	0.0343	0.0409
Standard deviation	0.0418	0.0576	0.0388	0.0104	0.0110
Relative standard deviation	7.8326	0.3495	0.0520	0.2147	0.3207



Mineral Analysis-Zinc (Zn)



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6	53.79	5.09	3.46	10.10	1.24	4.12	15.48	0.29	0.28
7	53.23	5.04	3.48	9.97	1.28	3.84	14.98	0.44	0.26
8	53.31	5.06	3.64	9.66	1.19	3.21	14.65	0.52	0.24
9	53.80	5.13	3.54	9.76	1.34	3.94	14.32	0.42	0.27
10	53.19	5.01	3.31	9.82	1.27	4.16	15.04	0.37	0.26
11	52.86	5.34	3.67	9.24	1.60	3.72	14.16	0.43	0.29
Average value	53.44	5.09	3.53	9.83	1.29	3.70	14.88	0.38	0.26
Standard deviation	0.30	0.10	0.17	0.24	0.11	0.33	0.48	0.12	0.02
Relative standard deviation	0.57	1.96	4.68	2.48	8.64	8.90	3.25	30.37	5.87

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Skyray Instruments USA, Inc
1717 N. Akard Street, Ste 2520
Dallas, Texas, 75201 USA

+ 1 972 638 9035
www.skyray-instruments.net
Sales@skyray-instruments.net

- Spectroscopy
- Chromatography
- Mass Spectrometry

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Skyray has been providing customers around the world with reliable and affordable Scientific Instruments for more than 20 years