

Press Release

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New: EDX-720

Banned substances quickly unmasked

New functions contribute to precision and efficiency /

Suitable for many types of industrial applications /

A wide range of accessories enhance convenience and application diversity

Shimadzu, one of the world leaders in analytical instrumentation, has developed an improved EDX model which further extends the current X-ray fluorescence spectrometer series. The new EDX-720 offers higher detection sensitivity for lead (Pb) and cadmium (Cd) due to optimization of hardware and software. These elements are especially important in environmental analysis, particularly with regard to WEEE (Waste Electrical and Electronic Equipment) and RoHS¹ (Restriction of the use of Hazardous Substances in electrical and electronic equipment).

The EDX-720 also features extra attractive functionalities such as the 'Auto Time Reduction' measurement function optimizing measuring time, or the automatic 'Switching Calibration Curve' function

switching between suitable calibration curves, for instance for PE or PVC.

As with the EDX-720, Shimadzu's entire EDX series generally offers a large 150 mm high sample compartment that can accommodate samples of up to 300 mm diameter – for a non-destructive qualitative and quantitative analysis, whether the samples are available in the form of metal alloys, films, powders or liquids. The EDXRF (**E**nergy-**D**ispersive **X-Ray F**luorescence) technology is used in a wide range of application areas: in refineries as well as in the chemical, electronics and food industry.

From sodium to uranium – banned substances easily unmasked

With a two-fold increase in detection sensitivity, the EDX-720 deals easily with hazardous substances such as lead and cadmium.

However, the EDX-720 can be used in many different elemental analysis application areas.

For investigation of small samples, the X-ray can be focussed easily onto smaller areas via the software. Two optional collimator sets cover the range of 0.3 up to 10 mm and 1 up to 10 mm. Using the optional CCD camera, precise location of the samples can be controlled. The images can be stored via the camera software and are available for inclusion into reports.

Software and numerous accessories

The software enables fast and successful analysis. Less experienced users will have no difficulty, while experienced users still have all possible freedom of use. Many accessories enhance application areas and convenience – from a precision stage to exact positioning of the sample and the implementation of an 8- or 16- position autosampler.



Caption: For optimum detection of hazardous substances: the EDX-720

¹⁾ Based on both of these directives, the German Federal Government has enacted the ElektroG (Electrical and Electronic Equipment Act) on 23 March 2005. According to this ruling, manufacturers are required to take back waste electrical- and electronic equipment for recycling. ElektroG also regulates recycling as well as the ban on the use of hazardous substances in this type of equipment.

For further editorial questions, please contact: Uta Steeger
Shimadzu Europa GmbH, Albert-Hahn-Str. 6-10, 47269 Duisburg, Germany
Tel.: +49 (0) 203-7687410, E-mail: us@shimadzu.de

Additional information is available on Shimadzu's website: www.shimadzu.de

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