

Measurement of Pollutants

Eurofins provides inspection and analyses of your import containers.

A significant number of shipping containers, not declared as dangerous goods, but containing typical import goods such as; foodstuffs, fabrics, textiles, shoes, toys, machines, wood, etc... are regularly found to contain toxic air pollutants.

With the advent of new regulations (Gef-StoffV) governing dangerous goods, new threshold limits have been set. Defined within these new regulations are the health and safety based occupational exposure limits (AGW's) that have been found to be regularly exceeded inside import containers and as a consequence the health and safety of employees endangered. A constant danger also exists due to the potential presence of residual fumigation gases that are commonly used inside containers to combat harmful organisms.

Our Services

Eurofins offers its customers the following packages covering a range of services for a single price:

1. Measurement of detained or suspect containers

We can sample the potentially contaminated air inside a container, provide a detailed report issued by a publicly appointed and sworn Trade Chemist, either declaring the container free of pollutants or where necessary recommending corrective action ranging from special handling such as ventilation or unloading whilst observing relevant protective measures.

Eurofins test code JR0CF encompasses initial on-site measurement that can be tailored to suit your requirements and



follow-up action including ventilation and further measurements to assess the current state.

On-site inspection is carried out using PID sensors that measure:

- VOC (volatile organic compounds - the total sum of toxic air pollutants)
- LEL (lower explosive limit) - flammable gases/substances
- O₂ (Oxygen)
- Toxic gas (H₂S, PH₃ etc...) - to establish the presence of fumigants

Additionally, an air sample can be taken on-site from which a toxic air spectrum is created using an FT/IR



(Fourier Transform - Infrared Spectrometer) or GC/MS (Gas Chromatography - Mass Spectrometry) and subsequently analysed and evaluated in our laboratory. Each analysis can include comparison and assessment against a database of up to 5,000 different substances.

2. Routine measurement of all your import containers prior to unloading

Before work commences all containers are initially measured using a hand-held PID and following positive results (finding of toxic air pollutants) follow-up specific analysis using FT/IR or GC/MS. Data from FT/IR measurements are transmitted electronically to our local laboratory for immediate assessment and then a informed recommendation can be made.

3. Risk assessment

We support you in your obligation to maintain a healthy and safe working environment, during the unloading of import containers. Working hand in



hand with our customers we can carry out target orientated multiple measurements to identify typical patterns and characteristics applicable to both goods and suppliers.

Further Services for Container and Goods Traffic

Eurofins can support your company in adhering to the regulations for the handling of dangerous goods:

- Survey of dangerous goods including consultancy
- Sampling of goods
- Measurement for radioactivity

Contact

Please contact us by telephone

+49 40 570 104 420

or by mail

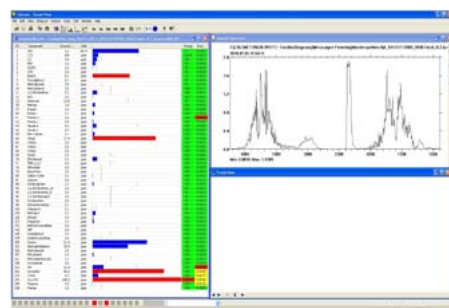
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Eurofins offers a wide range of services that can be tailored to your specific requirements. We can provide expert and flexible support throughout the provision of all our services, whether within or outside the Hamburg area, **24 hours a day**.



Eurofins stands for

- Outstanding service
- Punctual and precise results
- Professional support from qualified employees
- Laboratories equipped with state of the art equipment
- An international presence in 37 countries
- Regular customer driven audits
- Continuous monitoring of performance through extensive by internal quality management and participation in inter-laboratory comparisons



Your safety is our focus

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All contracts will be carried out in accordance with our [General Terms and Conditions \(GTC\)](#) that can be found at <http://www.eurofins.com/cpt>.

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