Measuring Radioactivity

Eurofins provides inspection and analyses of your import containers.

Contaminated steel from India, bonded goods from Japan or Ukraine, class 7 classified radioactive transports - there is an urgent need to scan and measure radioactivity.

Increased levels of radiation are a danger for your employees.

Our service range

Eurofins Consumer Product Testing GmbH, formerly Dr. Fintelmann und Dr. Meyer, provides a complete package of services including the measurement and inspection of containers, as well as sampling and testing of goods in order to guarantee compliance with global regulations concerning dangerous goods (ADR 2013/IMDG).

1. Monitoring of your handling of class 7 classified containers:
   - Measurement of containers
   - Inspection of the external condition and status of containers
   - Monitoring of your employees exposure to radiation
   - Training of employees
   - Consultation and guidance to the management

2. Radiation measurement of potentially contaminated containers and the surfaces of packages contained within:
   - Measurement of all four sides of containers at a distance of 2 metres, 1 metre, and on the container’s external walls.
   - Opening of containers and measurement on the surfaces of all packages accessible from the door area.

   Determination of radiation exposure by carrying out equivalent dose measurements using state-of-the-art high performance equipment such as Thermo RadEye PRD and Radiometer FH40G based on NaJ scintillation.
The equivalent dose rate measurement can provide an indication of whether the cause of any increased radiation is the container itself or the goods inside.

The surfaces of goods are also measured for activity in Bq/cm². Results will be given for α-, β- as well as γ-radiation.

3. On request we can also take samples and perform radioactivity testing of those material samples:

The material analysis will be performed by our partner laboratory Eurofins Contaminants GmbH in Hamburg by γ-spectrometry. Results of activity are provided in Bq/kg for the following isotopes:

Cesium¹³⁷, Cesium¹³⁴ as well as Iodine¹³¹.

**Risk assessment**

Surface activity is considered a pass when the results meet the following criteria:

• Dose rate is below 200 nSv/h
• α-radiation is below 0.4 Bq/cm²
• Sum of β- and γ-radiation is below 0.2 Bq/cm².

**Contact**

Please contact us by phoning

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or by mailing

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We offer services tailored to your special requirements and provide individual solutions for your needs, such as performing our measurements outside of Hamburg as well as handling higher volumes of containers.

We offer 24 h service.

**Eurofins stands for**

- Excellent service
- Accurate and timely results
- Technical consultation by highly qualified employees
- International presence currently in 37 countries
- Auditing by our customers
- Continuous performance control 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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