

Chemical Testing



Equipment and expertise

The laboratory Chemical Testing is accredited acc. to EN ISO 17025. It is equipped with high-performance devices for testing and analysis.

Our equipment comprises more than 100 test chambers, including one 6 m³ test chamber, eight 1 m³ test chambers and smaller test chambers, two micro chamber modules, one 23 m³ test chamber and one 36 m³ test chamber.

Quantitative and qualitative determination of emissions or contents of chemicals is carried out using modern analytical equipment (GC with MSD, FID, ECD, WLD, Headspace-GC; HPLC; GPC; ion chromatography) as well as analytical systems for formaldehyde and ammonia. In addition, various spectroscopic techniques (UV-VIS, fluorescence, IR, NIR, RAMAN) are on hand.

Testing of wood based materials and liquid coatings

- **DIN EN 717-1:** Determination of formaldehyde release, Part 1: chamber method
- **ASTM 1333, 6007:** Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates from Wood
- **ISO 12460-1 bis 4:** Determination of formaldehyde release
- **ISO 12460-5:** Determination of formaldehyde content, extraction method (perforator method)
- **JIS A 1460:** Building boards, Determination of formaldehyde emission - desiccator method
- **VdL-Guideline 03:** Determination of formaldehyde concentration in water-thinnable dispersion paints and related products
- **DIN EN ISO 11890 part 1 and 2:** Determination of volatile organic compound content (VOC-content)
- **DIN EN ISO 17895:** Paints and varnishes - Determination of the volatile organic compound content of low-VOC emulsion paints (in-can VOC)
- **DIN EN 71-3:** Migration of heavy metals
- **ISO 16702:** Diisocyanate (Workplace air quality - Determination of total organic isocyanate groups in air)
- **ZEK 01.4-08; GS specification AfPS GS 2019:01 PAK:** Testing and Evaluation of polycyclic aromatic hydrocarbons (PAH) in the course of GS-mark certification
- **DE-UZ 76:** Low-emission building and furniture panels
- **ISO 11890 part 1 and 2:** Determination of volatile organic compound content (VOC-content)
- **DE-UZ 102:** Low-emission wall paints
- **DE-UZ 12 a:** Low-pollutant varnishes



Testing of furniture and building products

- **DIN ISO 16000-9 and 10:** Determination of emission of volatile organic compounds (VOC), Part 9: Emission test chamber method, Part 10: FLEC-emission test cell
- **DIN ISO 16000-3 and 6:** Indoor air, Part 3: Determination of formaldehyde and other carbonyl compounds, Part 6: Determination of volatile organic compounds in indoor and chamber air
- **DIN ISO 16000-28 Indoor air:** Determination of odour emissions from building products using test chambers
- **DIN EN 16516:** Construction products - Assessment of release of dangerous substances - Determination of emissions into indoor air
- **DE-UZ 38/DE-UZ 176:** Low emission products from wood and wood based materials
- **DE-UZ 113:** Low-emission floor-covering adhesives and other covering materials
- **DE-UZ 156:** Low-emission flooring underlays
- **RAL-GZ 430:** General quality and test determinations for furniture
- **AgBB-Scheme:** Examination for the health evaluation of building products for interiors
- **M1:** Finnish emission classification for construction products
- **CPSC-CH-C1001-09.4:** Standard operating procedure for determination of phthalates
- **CEN/TR 14823:** Durability of wood and wood products - quantitative determination of pentachlorophenole in wood – gas chromatographic method
- **IHD-W-489:** Determination of Melamine in woodbased products applying extraction and HPLC analysis

The EPH quality mark “Quality tested” is awarded on test certificates and confirms that the tested product has been tested in accordance with specified standards and meets the specified quality requirements.



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