

Healthy Homes

Pollutants in Indoor Air



More and more frequently the cause for the increasing number of health problems and allergies supposedly come from the variety of organic compounds identified in indoor air. Construction materials, furniture, fittings and household chemicals can contain pollutants that affect people and pose risks to their health. According to the Environmental Protection Bureau, we spend most of the time (about 90%) of our life time inside. Therefore a relatively low pollution level in the interior can lead to a serious inhaling pollutant dose. Children are exposed to double the dosage of airborne pollutants than adults, the volume of air respired per minute in relation to their body weight is higher than the one of an adult. This needs to be considered when looking at the health limits. Also outside air pollutants (like PM 2,5) might diffuse into the interior.

Our specialist will carry out an on-site check to help to identify pollutants in construction materials, as well as furniture and fittings and general features in the flat or house. He brings on-site equipment for initial data and will collect air samples for direct testing.

The analysis is conducted according to stipulated procedures and quality assurance to determine the actual level of contamination in the on-site samples. Using the analytical parameters in relation to exposure limits, the effect on residents can be assessed.

After the inspection and analysis he will give an action plan how to proceed and include recommendations for action which will provide the basis for establishing a healthy home environment.

The various types of damage can only be partially represented in the table above.

The decisive factor for successful inspection and analysis is a good overview based on qualified individual employees with broad experience, and the expertise and competence of the WESSLING Group.



Damage caused by dry rot



Construction materials for laboratory analysis

Pollutant	Sources
Formaldehyde	Chipboards, glues, open flames
Pentachlorophenol (PCP), lindane, pyrethroids and others	Wood preservatives, woollen carpets, pest control
Volatile organic compounds (VOC)	Solvents, thinners, paints, glue, construction materials, fittings, furniture
Odours	Animal pests, plastics, mildew, glue
Polychlorinated biphenyls (PCB)	Joint sealers, concrete and screed coatings, capacitors
Polycyclic aromatic hydrocarbons (PAH)	Wooden flooring adhesive, insulation paint, tar boards, wood preservatives, joint sealants
Moulds, dry rot, bacteria, mites	Damp, possibly hidden construction elements, mattresses, furniture, Air conditioning
Black stains	Plasticisers, vapours, soot, dust
PM 2.5	„fine“ particles like all types of combustion, including motor vehicles, power plants, residential wood burning, forest fires, agricultural burning, and some industrial processes

Our range of services

- Easy and direct communication with our experts
- Analysis and advice from one source
- Independent and standardised evaluation
- Wide range of services with full quality assurance
- Assessment of risk and need for action
- Hygiene inspection on ventilation and air conditioning system
- Broad range of services with full quality control coverage
- Cost efficient, customized and fast solution

Advantages to you

- Effective support for healthy living areas
- Competent support from your individual contact person
- Best available technology meeting the required standards
- Early diagnosis providing certainty when planning ahead

Do you have any further questions or would you like more information on WESSLING's services? Please do not hesitate to contact us on **+86 21 33 72 53 67**. Or send an e-mail to **contact@wessling.cn**. For the latest information, please click on **www.wessling.cn**.

WESSLING offers the complete spectrum of high-quality services in consulting, analysis and planning. As a family-owned enterprise always performing to the highest standards, we have more than 30 locations in eight European countries, in Morocco and in China. 1000 employees provide you with solutions regarding quality, safety, health and environment.