Engineering Performance



# Plant and product testing Air Quality

Identify risks, minimize risks



### Your partner for safety and health protection

Air is the most important livelihood for us humans. Therefore, the air quality has a great influence on our health. Also for industrial processes a high quality of the air plays an increasingly important role. Do you know the air quality at your location, and do you know how to control and optimize it?



These tests are carried out according to relevant standards or according to house procedures or customer specifications.

### Individual test and measurement procedures examine and secure your air quality

Air filters and systems with filters or other separators are indispensable in many areas. They safeguard human health with their dust or other pollutant eliminating functions and ensure trouble-free processes in industrial production.

In order to ensure that air purification systems can be designed and operated effectively for commercial use you have to know the air quality on your site. Therefore, it is necessary to know the critical air pollutants and their concentrations. Our workplace and indoor measurement body accredited according to the Ordinance on Hazardous Substances (§ 7, para. 10) carries out measurements and assessments of the air quality. In addition, we offer measurements of immissions (outdoor air) and emissions (exhaust gases).

The focus of our test laboratory for air hygiene, which is accredited according to DIN EN 17025, is testing of products that improve air quality, e.g. filter media, air filters (elements) and air scrubbers, but also systems with separators - from vacuum cleaners to industrial dedusters. As an independent service provider, we check the separation performance with regard to dust and gaseous air pollution (including dust holding and gas capacities), pressure drop loss, pulse cleaning and aging behavior and much more.



### Your benefit

Companies will receive a documentation showing that they have fulfilled their employer's obligations or receive expert advice from us.

As a manufacturer of air purification products, you have a competitive advantage with DMT certificates or test reports. As a company of the TÜV NORD Group, we are also in a position to provide you with a TÜV test mark for your air cleaning decive(s).

If you are an operator of such devices, you have the certainty that you can rely on the features of these products and systems tested by our independent and qualified engineers.

### **Technical equipment**

Our various test stands and test rooms with the associated measuring and data acquisition technology enable tests with air volume flows between  $10 \text{ m}^3 / \text{h}$  to  $100.000 \text{ m}^3 / \text{h}$ . If necessary, the air is conditioned for the test. Depending on the task, the appropriate test aerosols are generated and the corresponding physical, chemical and microbiological parameters are determined.

The DMT has an extensive range of test benches for the testing of air filters or aerosol separators of various types, as listed in the following portfolio. Furthermore, we offer the possibility of adapting test setups to your requirements. We have our own workshop and a complex technical infrastructure.

## DMT

### Engineering Performance

### Portfolio of Services

### (Bio) aerosols and gases, i.a.

- Testing of air filters, mechanical and adsorptive separators
- Testing and certification of systems and systems with integrated separators
- Testing and certification of air hygienic performance



### Air measurements on site

- Work place measurements (all 5 groups)
- Indoor air measurements (incl. Bioaerosols)
- Clean room measurements (e.g. of phamaceutical plants and operation theaters)
- Testing of stationary dedusters

### Test dusts and particle analysis

- Manufacturing and sale of test dusts
- Dust, particle, fiber and bulk material analysis
- Dustiness investigations

#### **Special examinations**

- Testing according to customer requirements
- Performance testing of aerosol separators
- Environmental tests (with dust or sand)
- Emission chamber tests to determine materials emissions
- Evaluation of emissions of hazardous substances (incl. VOC)

#### **Consulting and assessment**

- Damage inspections with expert report
- Damage assessments
- Development and consulting services





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