

# **EMISSION AND ODOR TESTS**

## **of materials and components for vehicle interiors**

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Instructions on sampling, preparation and shipping of test samples

## ■ SAMPLING, STORAGE, SAMPLE HISTORY

Pack the representative samples promptly, typically **within 8 hours after the production process**, airtight in aluminum composite foil.

The sample history with **date of manufacture and packaging date** must be known and reported to the test laboratory.

*The exact instructions of the car manufacturer must be considered and can be gathered through the corresponding technical regulations e.g. Daimler DBL 5430, VW 50180, Porsche PN 780, BMW GS 97014-2, BMW GS 97014-3, GMW16853.*

## ■ SAMPLE PACKAGING AND PREVENTION OF CONTAMINATION

For packaging of the samples, only **aluminum composite foil according to DIN 55531 type 1** should be used.



For sealing of the foil, **welding tongs** or an ordinary iron are suitable. The required foil and foil bags can be purchased in our **imat Experience Center**.

[ORDER HERE ONLINE](#)

To prevent contamination of the samples, they should not be touched with bare hands. Use cotton gloves if possible.

Labeling on the samples directly causes contamination and should therefore be strictly avoided. Any heating of the samples outside the manufacturing process should be avoided. Do not expose the samples to direct sunlight.

Store the samples preferably at **room temperature** at  $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$ .

## ■ SAMPLE QUANTITY FOR MATERIAL AND INDIVIDUAL PART TESTS

**Applies among others VW 50180, DBL 5430, PN 780, GS 93008-4, GMW16853 with the material tests based on e.g. VDA 270, VDA 278, VDA 277, VDA 275, DIN 75201**

Material and individual part measurements require a minimum weight of approx. 250 g or a minimum surface of 2 x DIN A3 per test sample variation.

**Please also ensure a sufficient sample quantity!**

## ■ SAMPLE QUANTITY OF COMPONENTS AND SEMIFINISHED PRODUCTS FOR COMPONENT CHAMBER EMISSION TESTS

**Applies among others ISO 12219-4, VDA 276, GS 97014-2, GS 97014-3, PV 3942, VCS 1027,2769**

Chamber emission tests of components and semifinished products require 1 kg of a three-dimensional or 1 m<sup>2</sup> of a flat material per 1 m<sup>3</sup> Chamber test room. Vehicle interior parts and material are typically tested as a vehicle set, i.e. the test quantity corresponds to the product scope used in a vehicle, whereby a load of approx. 1 kg per 1 m<sup>3</sup> should be achieved.

*The precise instructions of the car manufacturer must be respected and can be found in the corresponding technical regulations e.g. DBL 5430, VW 50180, PN 780, BMW GS 97014-2, BMW GS 97014-3, GMW16853.*

## ■ PAINT FILMS AND ADHESIVES

Paint films and adhesives must be prepared according to the specifications and in consultation with the responsible department of the automobile manufacturer. Under process conditions hardenfilms are tested in application layer thickness.

Typically, for a test, e.g. according to VDA 278, is applied to aluminum foil. The weight per unit area of the coating material should be submitted with the sample. In addition, a sufficient quantity of the uncoated substrate must be included. Depending on the application and technical specification, adhesive samples can be placed between two aluminum foils.

## ■ SAMPLE SHIPPING AND ACCOMPANYING LETTER

When sending samples, please always enclose an accompanying letter (purchase order/order/data sheet) with reference to our quotation number - this will help us to avoid delays! Thank you!

At the latest with the dispatch of the material samples, single parts, semifinished products or components, a pre-filled **data sheet** should be sent, depending on the corresponding technical regulations.

(e.g. **BMW HC data sheet** for GS 97014, **Porsche emission table** for PN 780, Daimler **DBL 5430 supplement 4**)

For the GS 97014-2 test, the total displacement volume of the test sample must be additionally communicated.

### **Typical test specifications, standards and delivery regulations are for instance:**

- DBL 5430, VW 50180, PN 780, GMW 16853
- VDA 270, VDA 275, VDA 276, VDA 277, VDA 278
- DIN 75201
- DIN EN ISO 17071, DIN EN 14288, DIN EN ISO 17226,  
DIN EN ISO 14184-1, DIN EN 13130-4
- DIN ISO 12219-2, DIN ISO 12219-3, DIN ISO 12219-4, DIN ISO 12219-7, ISO 6452
- PV 3341, PV 3015, PV 3900, PV 3925
- GS 97014-2, GS 97014-3, GS 97014-4, AA-0061
- GMW 15635, GMW 3205, PSA D10 5517
- FLTM BZ 156-01-B, FLTM BO 131-03, SAE J1756
- VCS 1027, 2729
- TSM 0505G, TSM 0508G, SES N 2403, MS 300-55



The equipment for sample preparation is available in our imat Experience Center  
[imat-shop.de](http://imat-shop.de)

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If you want to know more about **emission and odor tests**, please contact your designated Project Engineering & Sales representative or contact:

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