

# BODO MÖLLER CHEMIE

*Engineer chemistry*



Technology center for  
adhesive applications

Adhesive Competence Center

# Technology center for adhesive applications

Full service for all aspects of **applied adhesive technology**

## Adhesive Competence Center

As expert for adhesive applications, we follow the latest trends and see ourselves as an interface between the chemical industry and the processing industries. With regard to research and development topics, we keep pace with the times and take advantage of our many years of expertise in applied technology of many different branches of industry, in order to support our customers in their developments. With our **Adhesive Competence Center** we offer customers a unique full service package for all aspects of applied adhesive technology, from product selection to product validation, process simulation and engineering.

**Testing of adhesive joints** according to DIN 6701-2 and DIN 2304-1

## Adhesive Laboratory

In our modern and extensively equipped **adhesive laboratory**, we test all structural adhesive types according to ISO, EN and DVS standards for our customers. For this purpose, all the common adhesive test methods for determining the mechanical, thermal and structural properties of adhesives are available, such as the tensile shear test, track and angular peel tests, and aging simulations (e.g. Cataplasma, weathering). When selecting an adhesive, laboratory tests are used to determine whether an adhesive is suitable for the desired application, taking into account various factors such as the type of substrate, surface texture, application temperature and environmental conditions. Laboratory tests therefore make a decisive contribution in the quality assurance of adhesive-based connecting technology. Our laboratory is certified according to the highest safety class (A1/S1 level) according to DIN 6701-2 for the bonding of railway vehicles and vehicle parts and according to DIN 2304-1 for the calculation of adhesive bonds. More than 15 other certifications make us the competence center for adhesive applications in a number of relevant industries.

Determination of construction data for **calculating adhesive bonds**

## Engineering Data Management

Frequently, the standard data of adhesives are not sufficient for engineers and technologists. It lacks the relevant technical data necessary to perform a comprehensive process simulation. We therefore convert key chemical characteristics into design data in our Adhesive Competence Center. Using laboratory tests, we determine the mechanical, thermal and structural properties of adhesives as the basis for the calculation of adhesive bonds. The technical data are obtained through elaborate long-term tests in our adhesive laboratory, which is certified in accordance with DIN 6701 and DIN 2304. This is a service which is unique throughout the world. With this data, adhesive engineers have an important tool to design high-quality and safe adhesive joints.

**ISO 9001** Quality management

**ISO 14001** Environmental management

**ISO 45001** Occupational health & safety

**EN 9120** Distribution and repacking for aviation industry

**DIN 6701** Adhesive bonding of railway vehicles (laboratory)

**DIN 2304** Quality requirements for adhesive bonding processes (laboratory)

## Design Office

The adequate quality of the adhesive bond is for safety-related adhesive applications of crucial importance, particularly in the manufacture of passenger cars, trucks, buses and rail vehicles. As an **expert for adhesive bonding**, we offer our customers not only the determination of technical data of adhesives, but also the calculation of adhesive bonds as a service. We are certified according to the highest security class (A1/S1 level) according to DIN 6701-2 for the bonding of rail vehicles and vehicle parts and according to DIN 2304-1 for the calculation of bonded joints. This guarantees extensive know-how and the highest quality. Based on laboratory test results, adhesive bonds are calculated using mathematical methods and FEM software (finite element method) and tested with the substrates of the customers. In this way, development processes can be significantly shortened and made safer and more efficient.

## Audit Body

The implementation of the standard DIN 6701 creates a high demand for **standardisation and certification procedures** in the railway industry. Similarly, this is to be expected for general industry according to DIN 2304. As a further service, we support companies in the preparation of audits according to DIN 6701 and 2304. Our qualified adhesive specialists help to design the bonding processes in companies in such a way that they meet the high requirements of the standards. By using pre-audits, we prepare companies for the certification carried out by TBBCert and TC-Kleben.

## Training Center

Only if the development of adhesive technology goes hand in hand with the **transfer of know-how to the user**, can innovation unfold to its true potential. Through our partnerships with technology leaders, such as BASF, Dow, DuPont, Henkel and Huntsman, as well as research facilities, such as the Fraunhofer IFAM, we know about the latest product developments and system solutions. Together with our many years of experience in the automotive, railway, aerospace and electronics industries, we are able to offer a unique knowledge about products and applications. We see it as our responsibility to share this knowledge with users. For this reason, we organise seminars, workshops and practical laboratory trainings, where our adhesive specialists, as well as experts from industry, research, and the certification bodies pass on their expertise to the participants.

**Calculation of adhesive bonds**, certified according to the highest safety class (A1/S1 level) of DIN 6701-2 and DIN 2304-1

**Preparation and implementation of pre-audits** according to DIN 6701-2 and DIN 2304-1

**Transfer of product and application knowledge**

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