

About IABG

IABG offers integrated, ground-breaking solutions in the sectors Automotive • InfoCom • Mobility, Energy & Environment • Aeronautics • Space • Defence & Security. We provide independent and competent consulting. We implement with future viability and target orientation. We operate reliably and sustainably. Our success is based on an understanding of market trends and requirements, on our staff's technological excellence and a fair relationship with our customers and business partners.

As a development partner we provide quality control services and develop solutions in the areas of functional efficiency, quality, design and materials. We offer a broad spectrum of products and services, ranging from numerical analysis to experimental testing to the realisation of turnkey, customised test systems that we operate for the customer.

For further information please contact:

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AUTOMOTIVE



INFOCOM



MOBILITY,
ENERGY &
ENVIRONMENT



AERONAUTICS



SPACE



DEFENCE &
SECURITY

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High Risk Testing

Fire and Flammability Tests



www.iabg-lichtenau.de

Cover picture: Fire test on a CFRP-tank

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IABG provides a full service for fire and flammability testing

- According to national and international specification standards we conduct fire and flammability tests on, e.g.
 - hydrogen and nitrogen vessels
 - traction batteries
- Test specimen, such as hydrogen, helium and nitrogen tanks, can be pressurized with different mediums
- Local or global firing, e.g.
 - engulfing fire according to R134
 - freely adjustable temperature gradation
- The tests are monitored by high speed video and a thermal imaging camera



Example of a bonfire test

- Complete instrumentation with temperature and pressure sensors or strain gauges
- In addition to customer-specific tests, IABG also performs tests in compliance with the following standards among others:
 - EC 79 or R134
 - ECE R 100, GB/T or KMVSS
 - RTCA-DO 160 G
 - DIN EN 45545



Fire test based on DIN EN 45545



Fire test based on ECE R 100

Why you should rely on us

We are a neutral company, certified according to DIN EN 9001, helping our customers meet mandatory fire and flammability test regulations. **We provide an overview** of how test objects react in worst case scenarios along with analyses of their potential weaknesses. **According to the test results, we provide certifications** that enable market entrance and facilitate sales.