



# Material Flammability Test Center

Burning for your safety

Holistic safety is the top priority in aviation. It calls for extensive checks, such as the flame retardancy of all materials. Our Material Flammability Test Center offers comprehensive testing for a wide range of aircraft interior materials.

Meeting the highest standards is essential for demanding safety tests like the ones performed for aircraft materials interior in our Material Flammability Test Center. All our tests comply with the latest EASA/FAA documentation, specified in of CS/FAR 25 Appendix F.

Our services include pre-treatment of materials to meet humidity and temperature requirements, conducting the tests, and preparing for the necessary test certificates. We guide our customers through every step of the process and are there to support them with our experience and expertise, whether in selecting the right test package or consulting with our authorized EASA 21J engineers for a scheduled inspection.

## Benefits

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Test carried out EASA/FAA compliant

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FAA listed laboratory

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Connected to the LHT EASA Part 21

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Comprehensive in-house capabilities

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Arranged Part 21 witnessing possible

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**Lufthansa Technik**

## We leave nothing to chance

We offer a wide range of tests for a complete and holistic examination.

### 1. Bunsen burner tests

#### Required sample size & quantity

The following flammability tests can be performed with our Bunsen burner test equipment in accordance with:

A set of at least 4 specimens is required for each evaluation.

#### CS / FAR §25 Appendix F Part 1

60 sec. vertical ignition test  
12 sec. vertical ignition test  
15 sec. horizontal ignition test 2.5 inch/min  
15 sec. horizontal ignition test 4 inch/min  
30 sec. 45° ignition test

#### Specimen size:

100 mm x 300 mm  
100 mm x 300 mm  
100 mm x 300 mm  
100 mm x 300 mm  
250 mm x 250 mm



Sample in Bunsen burner test

### 2. Heat release rate tests (OSU-HRR)

We can perform OSU heat release rate tests that meet the requirements of:

A set of at least 4 specimens is required for each evaluation.

#### CS / FAR §25 Appendix F Part 4

#### Specimen size:

150 mm x 150 mm



Bunsen burner test set-up

### 3. Smoke Emission/Density Test (SDT)

We can perform smoke emission / smoke density tests that meet the requirements of:

A set of at least 4 specimens is required for each evaluation.

#### CS / FAR §25 Appendix F Part 5

#### Specimen size:

74 mm x 74 mm



Heat release rate test

### 4. Electrical wiring test

We can perform electrical wiring tests that meet the requirements of:

On request

#### CS / FAR §25 Appendix F Part 1



Smoke emission/density test

### 5. Additional witnessing EASA 21J

If required, we can offer witnessing by qualified and certified engineers.

If your task for flammability tests is not listed, please contact our laboratory team. Together we will identify a customized test procedure that meets your specific requirements.

#### Contact

Lufthansa Technik AG  
Department HAM T/TQ-M  
Weg beim Jaeger 193 | 22335 Hamburg | Germany  
laboratoryservices@lht.dlh.de

lufthansa-technik.com

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