



Material Flammability Test Center

Lufthansa Technik operates a one-stop shop for MRO Laboratory Services covering analytical investigations across all aviation materials. The Material Flammability Test Center (MFTC) offers complete investigation on a broad range of aircraft interior materials.

With a large variety of flammability tests at its disposal, Lufthansa Technik's Material Flammability Test Center offers complete investigation and substantiation on a broad range of aircraft interior materials. All tests comply with current EASA/FAA flammability test requirements as per CS / FAR 25.853.

The services offered by MFTC include pre-conditioning of samples to the required standard humidity and temperature, test performance, compilation of test report and issue of the relevant test certificates.

We can also guide you through the applicable aviation authority regulations to enable you to select a suitable test package. To complete the process, we can arrange witnessing by authorized Part 21 engineering staff.



Sample in Bunsen burner test



Bunsen burner test set-up



Heat release rate test



Fire containment test

Contact

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Products & Services ¹	
<p>1. Bunsen Burner Tests</p> <p>The following flammability tests can be conducted on our Bunsen burner test equipment in accordance with:</p> <p>CS / FAR §25 Appendix F Part 1</p> <p>60sec ignition vertical test 12sec ignition vertical test 15sec ignition horizontal test 2.5 inch/min 15sec ignition horizontal test 4 inch/min 30sec ignition 45 degree test</p>	<p>Required sample size & amount</p> <p>For each evaluation a minimum set of 4 specimen is required</p> <p>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</p>
<p>2. Heat Release Rate Tests (OSU-HRR)</p> <p>We can perform heat release rate tests according to OSU that comply with the requirements of:</p> <p>CS / FAR §25 Appendix F Part 4</p>	<p>For each evaluation a minimum set of 4 specimen is required</p> <p>Specimen size: 150 mm x 150 mm</p>
<p>3. Fire Containment Tests</p> <p>We can perform fire containment tests that comply with the requirements of:</p> <p>FAR §25.853(e)</p> <p>We are also able to perform tests of waste boxes, and further tests of individual materials used e.g. metallic/nonmetallic meal boxes, carts and trolleys.</p>	<p>For each test the following specimen test material is required:</p> <ul style="list-style-type: none"> • Waste box body • Waste box door • Waste box Flap • Seals • Waste container • (Other test equipments)
<p>4. Electrical Wiring Test</p> <p>We are able to perform electrical wiring tests that comply with the requirements of</p> <p>CS / FAR §25 Appendix F Part 1</p>	<p>On request</p>
<p>5. Additional Witnessing EASA 21 DE</p> <p>If necessary, we can provide witnessing by qualified and certified engineering.</p>	

1) Delivery time max. 5 business days from receipt of samples to e-mail delivery of report, including complete supplementary documentation.

How-to guide	Shipping address:	Substance labelling:
<p>If your task or material flammability test requirement is not listed, please contact our MFTC team. Together we will find an approach that addresses your specific needs. Please send your samples firmly sealed and sufficiently labeled.</p>	<p>Lufthansa Technik AG Laboratory Services Material Flammability Test Center Department HAM TQ/M-C Building 250, Room 232/Bhf. 36 Weg beim Jäger 193 22335 Hamburg, Germany</p>	<ul style="list-style-type: none"> • Customer/operator/part number • Material description/composition • Manufacturer • Test method in detail • Sample ID/batch-, article- and test numbers
		<p>Supplementary:</p> <ul style="list-style-type: none"> • Purchase Order • Contact information incl. e-mail address • Reference number (if necessary)