

# TECHNICAL DATA SHEET FIRE CLASSIFICATION

**aixFOAM®**

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Description  
FAR 25.853

The test norm FAR 25.853 is mainly used in air transportation industry. The FAR 25.832 vertical burn test was executed by Lufthansa Technik Laboratorien in Hamburg. The inspection was documented and an inspection certificate issued (6040/2005) by Lufthansa Technik AG. This is an official test method recognized by the German Federal Aviation Authority test method named Flammability Material Test Certificate FAR25.853.

The following testing criteria must be fulfilled for the FAR 25.853 test:

For this purpose a specimen has a vertical flame applied by Bunsen burner (800 C°) for 12 seconds. The flame that is ignited on the test specimen must die out within 15 seconds and may not spread more than 8 inch (203mm).

## Flammability Material Test Certificate Bunsen Burner Test Data Sheet

Test Laboratory  
HAM TQ23-C

Authorization  
EASA.21J.019



Material Description aixFoam	Composition	Test Number 6040/2005
Manufacturer Schaumstoffe Helgers	Customer/Specification	Application
Customer Part Number	Batch Number only this batch	Article Number
		Weight

Test Method FAR 25.853		Test requirement (Max Avge) Conditioning 24 h					
Ignition Time For Details see FAR Part 25 App. F Part 1	Material Definitions	Flame Extinguishing	Burn Length	Drip Extinguishing	Burn Rate	Flame Penetration	After Glow
<input type="checkbox"/> 1. 60 sec Ignition Vertical Test	Interior Panels; Galleys; Under Seat Stowages	15 sec	6 inches (152 mm)	3 sec			
<input checked="" type="checkbox"/> 2. 12 sec Ignition Vertical Test	Floor Coverings; Textils; Decorative Parts; Galley Furnishings; Cushions; Electrical Conduits; Insulations; Ducts; Cargo Liners	15 sec	8 inches (203 mm)	5 sec			
<input type="checkbox"/> 3. 15 sec Ignition Horizontal Test 2.5 inch/min	Clear Windows; Signs; lighted Instruments				2.5 inch/min		
<input type="checkbox"/> 4. 15 sec Ignition Horizontal Test 4 inch/min	Small Parts; Knobs; Clips; Electrical Parts, etc.				4 inch/min		
<input type="checkbox"/> 5. 30 sec Ignition - 45 Degree	Cargo Liners; B + E	15 sec				none	10 sec
<input type="checkbox"/> 6. 30 sec Ignition - 60 Degree	Electrical System Components; Insulation of electrical wires	30 sec	3 inches (76 mm)	3 sec			
<input type="checkbox"/> 7. Blanket Test	Passenger Blanket	15 sec		3 sec			

Test Results								Sketch / Construction
Sample Number	Flame Extinguishing	Burn Length	Drip Extinguishing	Burn Rate	Flame Penetration	After Glow	Test Direction	
1.	0 sec	15 mm	no drip	inch/min		sec	Lay or Weft/Fill	
2.	0 sec	15 mm	no drip	inch/min		sec	Lay or Weft/Fill	
3.	0 sec	15 mm	no drip	inch/min		sec	Lay or Weft/Fill	
Average	0 sec	15 mm	no drip	inch/min		sec	Lay or Weft/Fill	
1.	sec	mm		inch/min		sec	Warp	
2.	sec	mm		inch/min		sec	Warp	
3.	sec	mm		inch/min		sec	Warp	
Average	sec	mm		inch/min		sec	Warp	

Test Date : 21.10.2005      Tested by : Damwijk           Engineering/Work Order

Pass       Fail      Approved :           Comments :

LHT Form 31147 B-02 (FRA WE 2) Printed in the Federal Republic of Germany Rev. Date 01.06.2004



Management System  
ISO 9001:2008



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Description

FAR 25.853

### **aixFOAM Acoustic Absorber in perfection**

Do you have questions about our products or your order? We will gladly help you!

Phone Contact  
Sales  
Order processing

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sales@aixfoam.com  
office@aixfoam.com



Our aixFOAM® product range offers you individually-arranged complete solutions for soundproofing, technical acoustics and room acoustics, based on high-quality and effective acoustic foams.

Experience, top quality and an uncompromising commitment to our customers' desires: It depends on us. Since 1958, we've been systematically expanding and perfecting our main skill: manufacturing and refining acoustic foam. As a system supplier for foam materials, we specialize in the industrial manufacturing of professional products for sound insulation and noise control.

As a future-orientated partner in development of our customers, we are constantly expanding range of our products and investing in automatisisation of the process and the most up-to-date CNC technologies.

Our extremely enthusiastic and engaged workforce commands an impressive expertise. An above average level of education and many years of experience in the field of acoustics and sound absorbers form the basis for smoothly creating high-quality custom aixFOAM special solutions. Networking with flexible renowned logistics partners, and a sophisticated logistics, offer our customers sustainable shopping, and allow us short delivery times and maximum adherence to the delivery date. This applies to deliveries both within and outside of Germany.

At the newly remodeled location near to Aachen, aixFOAM demonstrated its high technical competence on a total of 6,000 m<sup>2</sup> of commercial space. All our assorted products are manufactured here, using optimized processes and manufacturing methods. Carefully selected raw materials in nearly all diversifications are a pre-requisite for our extensive spectrum of creative and economic problem solutions.



Management  
System  
ISO 9001:2008

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