

# TFI-Report 450421-07

## Classification

of the reaction to fire according EN 13501-1:2010

This report is a translation of TFI report 450421-03. The German report is legally valid.

Report established for Kinnasand GmbH  
Danziger Str. 6  
26655 Westerstede  
GERMANY

Prepared by TFI Aachen GmbH  
Charlottenburger Allee 41  
52068 Aachen

Notified Body No 1658

Product Product 1: Aram  
Product 2: Kelim

This report includes 5 pages.



Aachen, 03.09.2024

Dr. Jacqueline Lemm



The present document is provided with an advanced electronic signature.

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.

TFI Aachen GmbH is a notified testing body (NB1658) under the EU Construction Products Regulation 305/2011 for the technical specifications EN 13813:2002, EN 14041:2004/AC:2006, EN 14342:2013, EN 14904:2006 and EN 15102:2007+A1:2011 and horizontally notified for fire tests according to EN ISO 9239-1 and EN ISO 11925-2.

The test result does not include any addition or deduction for uncertainties due to measurement, sample preparation, sample collection and production tolerances.

**Responsible at TFI :**

A handwritten signature in blue ink, appearing to read 'U. Balg', is centered on the page.

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**Remark:**

This report is based on the samples tested in 2015 (TFI sample numbers 15-03-0139 and 15-03-0140)

## 2 Product description

The products are described completely in the test reports mentioned under point 3, on which this classification is based, and the corresponding Annexes KT.

## 3 Reports and results in support of this classification

### 3.1 Test reports

Name of Laboratory	Report established for	Report ref.no.	Test method
Textiles & Flooring Institute GmbH	Kinnasand GmbH	450421-01 dated 25.03.2015	EN ISO 9239-1:2010
			EN ISO 11925-2:2010 (15 s ignition time)
Textiles & Flooring Institute GmbH	Kinnasand GmbH	450421-02 dated 25.03.2015	EN ISO 9239-1:2010
			-

### 3.2 Results

	Test method	Parameter	No. Tests	Results	
				Mean value	Requirements fulfilled (Yes/No)
Product 1	EN ISO 9239-1:2010	Average critical heat flux (kW/m <sup>2</sup> )	3	8.1	
		Integrated smoke value (% x min)		34	
	EN ISO 11925-2:2010	Flame tip ≤ 150 mm	6	-	Yes

	Test method	Parameter	No. Tests*	Results	
				Value*	Requirements fulfilled (Yes/No)
Product 2	EN ISO 9239-1:2010	Average critical heat flux (kW/m <sup>2</sup> )	2	>11.0	
		Integrated smoke value (% x min)		13	
	EN ISO 11925-2:2010	Flame tip ≤ 150 mm	-	-	-

\*Worse result for the average critical heat flux and the corresponding integrated smoke value from the Radiant Panel Test with a reduced number of samples.



## 4 Classification and field of application

### 4.1 Reference of classification

The classification has been carried out in accordance with EN 13501-1:2010.

### 4.2 Classification

The products „Aram“ and „Kelim“ in relation to its reaction to fire behaviour are classified:

**B<sub>fl</sub>**

The additional classification in relation to the smoke production is:

**s1**

The additional classification in relation to flaming droplets/particles is:

-

The format of the reaction to fire classification for floorings is:

Fire behaviour		Smoke production	
<b>B<sub>fl</sub></b>	-	<b>s</b>	<b>1</b>

**Classification of the reaction to fire: B<sub>fl</sub> - s1**



### 4.3 Field of application

This classification is valid for the following end use application:

Type of end use application	flooring
Substrate	noncombustible substrates (Euroclass A1 and A2-s1,d0) with a gross density $\geq 1350 \text{ kg/m}^3$
Underlay for installation	no
Type of fixation	glued and unglued
Joint according to EN ISO 9239-1:2010	no

### Limitations

This classification document does not represent type approval or certification of the product.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.