

Bellaterra: 01<sup>st</sup> August, 2017  
File: **17/14784-1528 Part 2**  
Petitioner's reference: **LAFFAN ALUMINIUM FACTORY**  
Factory 6114, street 11  
New Industrial Area  
P.O. Box 41134  
DOHA - QATAR

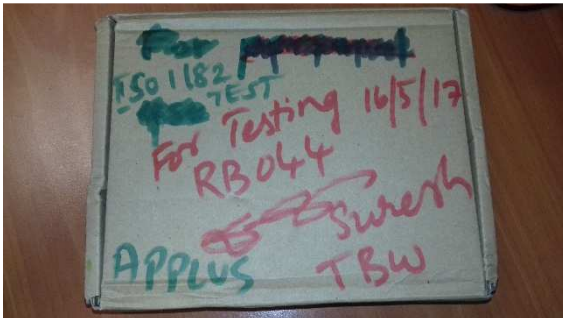


**CLASSIFICATION REPORT**

**1. - CHARACTERISTICS OF THE PRODUCT**

Product's commercial reference: LAFFAN ALUMINIUM FOAM

Aluminium foam is the new material from aluminium and gas bubbles inside mixture, silver colour and density between 200-400 kg/m<sup>3</sup>.



**Photos n°1 and n°2:** Detail of the signature on the packaging of the samples received to test and samples received

Manufacturer: LAFFAN ALUMINIUM FACTORY. Address: Factory 6114, street 11 - New Industrial Area, P.O. Box 41134 DOHA - QATAR

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**2. - CLASSIFICATION AND DIRECT APPLICATION FIELD**

This classification has been made in compliance with the procedures provided in Standard UNE-EN 13501-1:2007+A1:2010: "Classification in terms of the behaviour to fire of construction products and building elements. Part 1: Classification made from the data gathered during fire reaction tests".

**2.1. - Test Reports**

<b>Name of Laboratory</b>	APPLUS – LGAI
<b>Name of Petitioner</b>	LAFFAN ALUMINIUM FACTORY
<b>Test Report Number</b>	17/14784-1528 Part 1
<b>Testing method</b>	UNE-EN ISO 1182:2011 UNE-EN ISO 1716:2011

**2.2. - Results of the Tests**

Test Method	RESULTS			
	CRITERIA CLASS A1	Nº TESTS	AVERAGE	COMPLIANCE
UNE-EN ISO 1182:2011	$\Delta T \leq 30^{\circ}\text{C}$ (for $T_f$ )	5	<b>4.5</b>	<b>YES</b>
	$\Delta m \leq 50\%$		<b>22.82</b>	<b>YES</b>
	$t_f = 0 \text{ s}$		<b>0</b>	<b>YES</b>
UNE-EN ISO 1716:2011	$\text{PCS} \leq 2.0 \text{ MJ/kg}$	0 (*)	<b>0 (*)</b>	<b>YES</b>

(\*) In accordance with the point 9.4.1 of the test standard, metallic components do not need to be tested, and their higher gross heat of combustion used to calculate the total PCS will be 0.

**CLASSIFICATION**

The product, LAFFAN ALUMINIUM FOAM, related to their fire reaction behaviour, is classified as:

<b>Fire Behaviour</b>		<b>Smoke Production</b>			<b>Drops in flames</b>	
A1	-	s	-	,	d	-

**Fire Reaction Classification: CLASS A1**  
**This classification is only valid for the final conditions of use described in the present report.**

**2.3. - Field of application**

- This classification is valid for the following product parameters:  
The classification is only valid for the product characteristics shown.
- The classification is valid for the following final use applications:  
Several uses.

**2.4. - Limitations**

This classification standard does not represent any type approval neither a product certification

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Responsible of the Fire Laboratory                      Responsible of Reaction to Fire  
 LGAI Technological Center S.A. (APPLUS)      LGAI Technological Center S.A. (APPLUS)

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The results refer exclusively to the samples tested at the time and under the conditions indicated.  
**Applus+** guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with.  
 In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address: [satisfaccion.cliente@applus.com](mailto:satisfaccion.cliente@applus.com)

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