LGAI

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Bellaterra: 01st August, 2017

File: **17/14784-1528 Part 2**

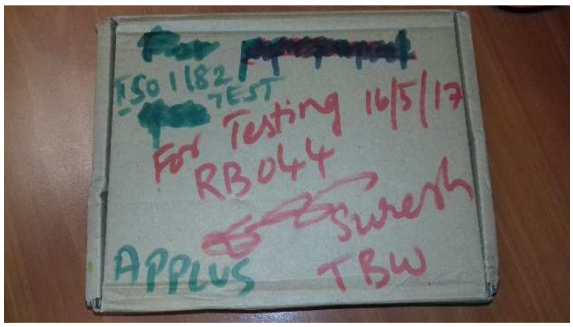
Petitioner's reference: **LAFFAN ALUMINIUM FACTORY**
Factory 6114, street 11
New Industrial Area
P.O. Box 41134
DOHA - QATAR

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^3.



Photos nº1 and nº2: 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

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

Name of Laboratory	APPLUS – LGAI
Name of Petitioner	LAFFAN ALUMINIUM FACTORY
Test Report Number	17/14784-1528 Part 1
Testing method	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	$\Delta T \leq 30^{o}C$ (for T_f)	5	**4.5**	**YES**
	$\Delta m \leq 50\%$		**22.82**	**YES**
	$t_f = 0$ s		**0**	**YES**
UNE-EN ISO 1716:2011	PCS ≤ 2.0 MJ/kg	0 (*)	**0** (*)	**YES**

(*) 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:

Fire Behaviour		Smoke Production			Drops in flames	
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

Digitally signed by Jordi Mirabent Junyent

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

Digitally signed by Salvador Suñol Gálvez

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