



Product Certification Report.

Flammability Test in accordance with AS 1530.1 (1994)

Attention: **Chris Cafe**

YINTEC
Suite 13c, Level3,
35-37 Princes Highway,
Engadine, NSW 2233

Your Reference: **Product: Gold Star 7047FR**

Our Reference: **ENV22284 SE139350**

Date of receipt sample: **18/05/2015**

RESULT of TEST: **PASS**
Ignitability INDEX Zero
Spread of Flame INDEX Zero
Heat Evolved INDEX Zero
Smoke Developed INDEX 1-2

This work has been carried out in accordance to your written instruction. The results and associated information are contained in the following pages of the report. Should you have any query regarding this report, please do not hesitate to contact the undersigned.

For and on Behalf of SGS Australia Pty Ltd;

Reported by

Technical Reviewer

Dr David Stone
Senior Chemist
SGS Industrial & Analytical Services

Dr Paul Pui
Business Manager
SGS Industrial & Analytical Services



Background:

SGS was requested by YINTEC to perform flame resistance testing to satisfy AS1530.1 (1994) SGS recommended the procedure for UN Class 4.1 - Readily Combustible Solids be followed.

Sample Description:

Three samples of an Aluminium Composite Panel, labelled Gold Star 7047FR were received by SGS on 18th of May. The specimens tested consisted of 300mm long by 200mm wide by 4.3mm thick panels comprising aluminium composite, being aluminium sheets on each side of 0.5mm thickness with a mineral based core.

Samples were tested without modification, except to remove the protective plastic film, as follows:

Methods used:

Readily Combustible Solids

UN Test Methods Part III – Section 33.2.1.4 Test N.1 “Test Method for Readily Combustible Solids” Please refer to UN Manual of Tests and Criteria (UN 2009)

A flame propagation screening test was performed to determine if, or whether, on ignition by a gas flame, **propagation by burning with flame or smouldering occurs**. Indices as per AS1530.3 were established by reference to the criteria, and smoke density was estimated.

1. If in the screen test the substance did not ignite and propagate combustion either by burning with flame or smouldering, it was not necessary to perform the complete burning rate test as the substance was not a readily combustible solid of Division 4.1.
2. If propagation occurs within a specified time then the full test shall be carried out to determine the rate and vigour of burning.
3. If propagation occurred and burning time was less than a specified time, the full burning rate test shall be performed.

Procedure:

The sample was positioned vertically in a metal support.

A hot flame from a gas burner was applied to the centre and also one corner of each piece for 5 minutes. The aluminium was oxidised but did not combust. The mineral core was softened and charred but did not combust. The mineral core when subjected to direct flame for 2 minutes did not combust, and did not propagate a flame.

Results:

The sample did not ignite and did not propagate combustion within 10 minutes test period. The sample should not be classified as a flammable solid and no further testing was required.

The panel is not a flammable solid and satisfies the requirement for AS 1530.1 (1994)