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# SPECIFICATION TESTED

**Project No:** PR463788  
**Class:** 4910  
**Product Name:** Croslene SMC 1413-00  
**Product Type:** Cleanroom Material  
**Name of Listing Company:** Croslene Chemical Industries Ltd.  
**Address of Listing Company:** 11F No 22 Nanjing W. Rd.  
Datong Dist.  
Taipei City 103  
Taiwan  
**Customer ID:** 268997-1  
**Customer website:** <http://croslene.com.tw>

**Prepared by**



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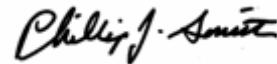
Sean Gillis  
Advanced Engineer

**Reviewed by**



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R. Scott Holmes  
Operations VP, Group Manager, Materials



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Phillip J. Smith  
VP, Manager of Materials

**25 June 2024**

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**Date**

## 1 INTRODUCTION

1.1 Croslene Chemical Industries Ltd requested Specification Testing of their Croslene SMC 1413-00 listed in Section 1.4 to determine if it meets the requirements of the standard listed in Section 1.3.

1.2 This report may be freely reproduced only in its entirety and without modification.

### 1.3 Standard

Title	Number	Issue Date
Examination Standard for Cleanroom Materials	4910	November 2020

### 1.4 Listing

The product will appear in the Approval Guide, an on-line resource of FM Approvals, as follows:

[Building Materials](#) [FM Approvals Cleanroom Materials Flammability Test Protocol](#)

#### Croslene SMC 1413-00

<b>Trade Name:</b>	Croslene SMC 1413-00
<b>Thickness:</b>	Minimum 6 mm (0.24 in.) thick
<b>Size:</b>	1200 mm x 2400 mm (47.2 in. x 94.5 in.) panels or other custom dimensions
<b>Material:</b>	Fire Retardant Sheet Molding Compound (SMC)

Formulations and specifications are on file at FM Approvals.

## 2 DESCRIPTION

The Croslene SMC 1413-00 is described as follows:

Croslene SMC 1413-00 is a fire retardant sheet molding compound. The material is beige in color and is available in sizes of 1200 mm x 2400 mm (47.2 in. x 94.5 in.) or other custom dimensions. The material is FM 4910 listed in thicknesses of minimum 6 mm (0.24 in.).

## 3 EXAMINATIONS AND TESTS

3.1 Samples were submitted for examination and testing. The samples were considered to be representative of standard production and were examined or tested as indicated below. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.

3.2 All testing and analysis considered appropriate was conducted and verified to be in compliance with the Standards defined in Section 1.3.

3.3 See Table 1 below for test details.

**Table 1**

Section	Test Name	Justification/Comments
4.1	Fire Propagation Apparatus Testing	Not conducted
	Ignition Test	
	Combustion Test	
4.2	8 ft. (2.4 m) Parallel Panel Testing	Conducted successfully
4.3	Infrared Spectra for Quantitative Analysis (FTIR)	Conducted
4.4	Infrared Thermal Desorption Gas Chromatography Mass Spectrometry (TD/GC/MS)	Not conducted – not applicable to product type

**4 MARKING**

4.1 Markings on the product, or if not possible due to size, on its packaging or label accompanying the product, shall include the following information:

- name and address of the manufacturer or marking traceable to the manufacturer.
- date of manufacture or code traceable to date of manufacture or lot identification
- model number, size, rating, capacity, etc. as appropriate

4.2 When hazard warnings are needed, the markings should be universally recognizable.

4.3 The model or type identification shall correspond with the manufacturer’s catalog designation and shall uniquely identify the product as Specification Tested to FM 4910.

4.4 Specification Tested to FM 4910 shall be displayed visibly and permanently on the product and/or packaging as appropriate and in accordance with FM Approvals marking requirements.

**5 REMARKS**

Continued Listing as Specification Tested in the Approval Guide is based upon fabrication and construction of Croslene SMC 1413-00 in accordance with this Specification Tested Report, satisfactory field experience and continued use of acceptable quality control procedures as determined by Surveillance Audits.

**6 SURVEILLANCE AUDIT**

The manufacturing facilities at the following location shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture products identical to that Specification Tested. An FM Approved Products/Specification-Tested Revision Request Form shall be submitted to FM Approvals for requesting to manufacture products at any additional or alternate manufacturing facilities which are not listed below.

**Audit Location**

No. 88, Xiangxi Rd.,  
 Hukou Township,  
 Hsinchu County 303,  
 Taiwan

**7 MANUFACTURER’S RESPONSIBILITIES**

- 7.1 Documentation that is applicable to this Specification Tested Listing is on file at FM Approvals and listed in the Documentation File, Section 8, of this report. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The FM Approved Products/Specification-Tested Revision Request Form shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2 The manufacturer shall supply all instructions, materials, equipment, and assistance necessary for the complete, proper and satisfactory installation, use and testing of the Croslene SMC 1413-00. Complete documentation shall be furnished and shall pertain to the specific Croslene SMC 1413-00 supplied.
- 7.3 In accordance with the Master Agreement, the manufacturer shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Specification Tested by, or being examined by, FM Approvals. The manufacturer shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this listing and shall keep records of all complaints / anomalies including actions taken.

**8 DOCUMENTATION**

The following document describes the Croslene SMC 1413-00 and is on file at FM Approvals.

Document Title	Issue Date
Surveillance Audit Manual, Hukou Township, Taiwan	June 2024

**9 CONCLUSION**

The product described in section 1.4 meets FM Approvals requirements. Since a duly signed Master Agreement is on file for this manufacturer, Specification Tested Listing is effective the date of this report.

**PROJECT DATA RECORD:** PR463788