

Company name:

# **ICP Test Report Certification Packet**

Littelfuse, Inc.

Product Series:	J - Case	
Product #:	495xxx Series	
Issue Date:	July 06, 2010	
2002/95/EC)-restricted so packing/packaging materi In addition, it is hereby re	ubstance nor such use als, and for additives ar ported to you that the pa packaging materials, ar	nat there is neither RoHS (EU Directive e, for materials to be used for unit parts, for and the like in the manufacturing processes.  Parts and sub-materials, the materials to be used and the additives and the like in the manufacturing apponents.
	Issued by:	Kristine L. De Guzman
		<global coordinator="" ehs=""></global>
(1) Parts, sub-materials a	and unit parts	
This document cove Inc.	rs the 495 RoHS-Comp	liant series products manufactured by Littelfuse,
< Raw Materials U	sed	
Please see Tab	le 1	
(2) The ICP data on all I	measurable substances ropriate pages as ident	
Remarks :		



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	048410	Element - Lubaloy x 425 Alloy	3-21
2	080625	Element – Olin 194 Alloy	3-21
3	080624	Element - Olin 151 Alloy	3-21
4	057336	Housing	3-21
5	057898	Black Colorant	3-21
6	057893	Cover – Clear Colorant	3-21
7	057785	Pink Colorant	3-21
8	057786	Green Colorant	3-21
9	057349	Housing	22-28
10	692536	Solder	29-36
11	057892	Natural Colorant	37-41
12	057885/057850	Yellow Colorant	42-46
13	057787	Red Colorant	47-51
14	057784	Base Colorant	52-56
15	057891	Cover – Violet Colorant	57-63
16	425498	Foil-White Hot Stamp	64-70



Date: 2010-06-18

# RESULTS REPORT INTERTEK TESTING SERVICES DE MEXICO SA DE CV LABORATORIO CD. DE MEXICO

**DELIVER TO:** 

Littelfuse, S.A. de C.V.

Blvd. Fausto Z. mtz. 1800, Col. Magisterio Sección 38, Piedras

Negras, Coahuila

ATTENTION:

Ing. Mario A. Falcón



Date: 2010-06-18

### **TEST REPORT**

### **APPLICANT**

Littelfuse, S.A. de C.V. Blvd. Fausto Z. mtz. 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila Ing. Mario A. Falcón

### SAMPLE DESCRIPTION

One (1) group of submitted samples said to be:

Sample Description

NΡ

16) Serie 495 P/N: 48410

17) Serie 495 P/N 80625

18) Serie 495 P/N: 80624

19) Serie 495 P/N 057336

Item No.

20) Serie 495 P/N: 057898 21) Serie 495 P/N: 057893

22) Serie 495 P/N: 057785

23) Serie 495 P/N: 057786

Country of Origin

NP

Buyer's Name

NP

Supplier's Name

NP

Date sample received 2010-05-26

Testing period

2010-06-01 to 2010-06-18



Date: 2010-06-18

### **TEST CONDUCTED**

One (1) group of submitted samples said to be:

Serie 495 P/N: 48410 17)

Serie 495 P/N 80625

18) Serie 495 P/N: 80624

### **TEST RESULT SUMMARY FOR RoHS DIRECTIVE:**

TESTING ITEM		Limit		
TEOTINO ITEM	(16)	(17)	(18)	<u></u>
Cadmium (Cd) content	ND	ND	j∰4ND	0,01% (100 ppm)
Lead (Pb) content	14,117	13,061	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	× · ND	0,1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	ND	ND	.≓ ND	0,1% (1000 ppm)



Date: 2010-06-18

### **TEST CONDUCTED**

One (1) group of submitted samples said to be:

19) Serie 495 P/N 057336

20) Serie 495 P/N: 057898

21) Serie 495 P/N: 057893

### **TEST RESULT SUMMARY FOR ROHS DIRECTIVE:**

TESTING ITEM		Limit		
TESTING ITEM	19)	(20)	(21)	LINA
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	. ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND 1	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND:	ND	
Dibromobiphenyl (DiBB)	ND	ND	ND .	
Tribromobiphenyl (TriBB)	ND	ND	ND	
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	`
Pentabromobiphenyl (PentaBB)	ND	ND	ND	
Hexabromobiphenyl (HexaBB)	ND	ND	ND	
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	
Octabromobiphenyl (OctaBB)	ND	ND	ND	
Nonabromobiphenyl (NonaBB)	ND	ND .	ND	
Decabromobiphenyl (DecaBB)	ND	ND	ND	
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	ND	
Dibromodiphenyl (DiBDE)	ND	ND	ND	
Tribromodiphenyl (TriBDE)	ND	ND	ND	an an
Tetrabromodiphenyl (TetraBDE)	ND	ND	ND	
Pentabromodiphenyl (PentaBDE)	ND	ND	ND	
Hexabromodiphenyl (HexaBDE)	ND	ND	ND	
Heptabromodiphenyl (HeptaBDE)	ND	ND -	ND	
Octabromodiphenyl (OctaBDE)	ND	ND	ND	- Pro-
Nonabromodiphenyl (NonaBDE)	ND	ND .	ND	
Decabromodiphenyl (DecaBDE)	ND	ND	ND	

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Date: 2010-06-18

### **TEST CONDUCTED**

One (1) group of submitted samples said to be :

22) Serie 495 P/N: 05778523) Serie 495 P/N: 057786

### TEST RESULT SUMMARY FOR RoHS DIRECTIVE:

TESTING ITEM	$\Omega$ RES	Limit	
ESTING ITEM	(22)	(23)	<u> </u>
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
ead (Pb) content	14,100	ND	0,1% (1000 ppm)
Легсигу (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND.	0,1% (1000 ppm)
nonobromobiphenyl (MonoBB)	ND .	ND .	
Dibromobiphenyl (DiBB)	ND	ND	
ribromobiphenyl (TriBB)	ND	ND ·	
etrabromobiphenyl (TetraBB)	ND	ND	
Pentabromobiphenyl (PentaBB)	ND	ND	
lexabromobiphenyl (HexaBB)	ND	ND	
leptabromobiphenyl (HeptaBB)	ND	ND	
Octabromobiphenyl (OctaBB)	ND .	ND	
lonabromobiphenyl (NonaBB)	ND	ND	
Decabromobiphenyl (DecaBB)	ND	ND	
OLYBROMINATED DIPHENYL THERS (PBDEs)	ND	ND	0,1% (1000 ppm)
lonobromodiphenyl (MonoBDE)	ND	. ND	
Dibromodiphenyl (DiBDE)	ND	ND	
ribromodiphenyl (TriBDE)	ND	ND ·	
etrabromodiphenyl (TetraBDE)	ND	ND	
Pentabromodiphenyl (PentaBDE)	ND	ND	
lexabromodiphenyl (HexaBDE)	ND	ND	
leptabromodiphenyl (HeptaBDE)	ND	ND	
Octabromodiphenyl (OctaBDE)	ND	ND.	
lonabromodiphenyl (NonaBDE)	ND	ND	
ecabromodiphenyl (DecaBDE)	ND	· ND	

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Date: 2010-06-18

ppm = parts per million based on dry weight of sample.

µg/cm<sup>2</sup> = microgram per square centimeter.

mg/kg WITH 50cm<sup>2</sup> = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA  $\Omega$ .

Prepared and checked by:

For Intertek

In In the deaner

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

# =ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE \_\_\_MX10 1165-16 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE <u>MX10 1165-17</u> WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE <u>MX10 1165-18 WERE TESTED TOGETHER.</u>

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE <u>MX10 1165-19</u> WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE <u>MX10 1165-20</u> WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE <u>MX10 1165-21</u> WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE <u>MX10 1165-22 W</u>ERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE <u>MX10 1165-23</u> WERE TESTED TOGETHER.

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Intertek Testing Services de México, S.A. de C.V.
Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863
www.intertek.com

07





Date: 2010-06-18

### Test method:

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	<u>Analysis</u> <u>Date:</u>	Analyzed By:	Reporting limit ppm
	1 0.	With reference to USEPA 3060, by EPA 7196	QHU2009-3p99,100	2010-06-05	MTCM	2,0

No. de Muestra	Testing item	Ω <u>Testing method</u>	Quality control Batch:	<u>Analysis</u> <u>Date:</u>	Analyzed By:	Reporting limit ppm
	POLYBROMINAT ED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004481-PCL	2010-06-18	▲ Contract	50
	POLYBROMINAT ED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004481-PCL	2010-06-18	▲ Contract	50

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
16	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-8p26	2010-06-03	MARY	10,0
17	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-8p26	2010-06-03	MARY	10,0
18	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-8p26	2010-06-03	MARY	10,0
19	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 7420	MET2010-8p27	2010-06-03	MARY	10,0
20	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 7420	MET2010-8p27	2010-06-03	MARY	10,0
21	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 7420	MET2010-8p27	2010-06-03	MARY	10,0
22	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 7420	MET2010-8p27	2010-06-03	MARY	10,0
23	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 7420	MET2010-8p27	2010-06-03	MARY	10,0



Date: 2010-06-18

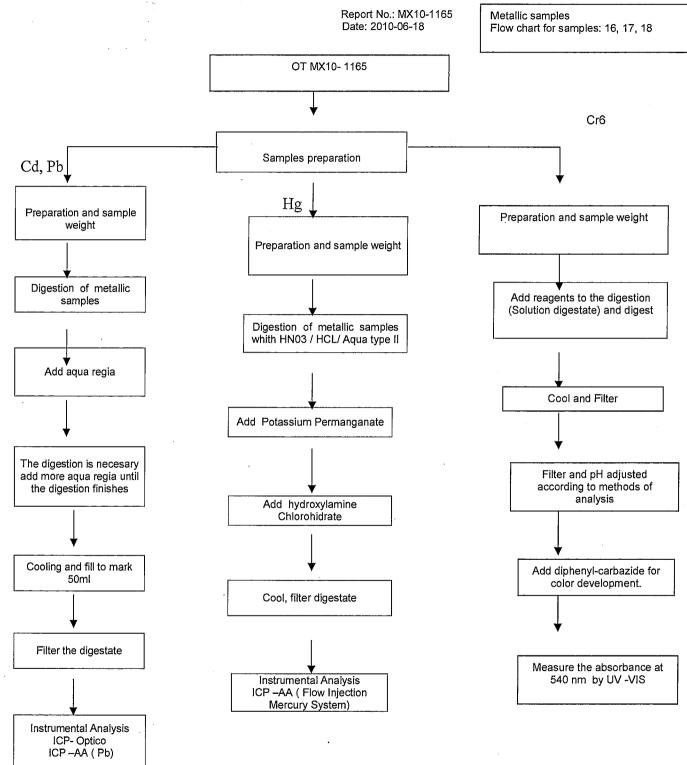
No. de Muestra	Testing item	Ω <u>Testing method</u>	Quality control Batch:	<u>Analysis</u> <u>Date:</u>	Analyzed By:	Reporting limit ppm
16	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 7130	MET2010-8p26	2010-06-03	MARY	2,5
17	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 7130	MET2010-8p26	2010-06-03	MARY	2,5
18	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 7130	MET2010-8p26	2010-06-03	MARY	2,5
19	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 7130	MET2010-8p27	2010-06-03	MARY	2,5
20	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 7130	MET2010-8p27	2010-06-03	MARY	2,5
21	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 7130	MET2010-8p27	2010-06-03	MARY	2,5
22	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 7130	MET2010-8p27	2010-06-03	MARY	2,5
23	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 7130	MET2010-8p27	2010-06-03	MARY	2,5

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
16	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p23	2010-06-02	JAPM	0,083
17	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p23	2010-06-02	JAPM	0,083
18	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p23	2010-06-02	JAPM	0,083
19	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p22	2010-06-02	JAPM	0,083
20	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p22	2010-06-02	JAPM	0,083
21	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p22	2010-06-02	JAPM	0,083
22	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p22	2010-06-02	JAPM	0,083
23	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p22	2010-06-02	JAPM	0,083

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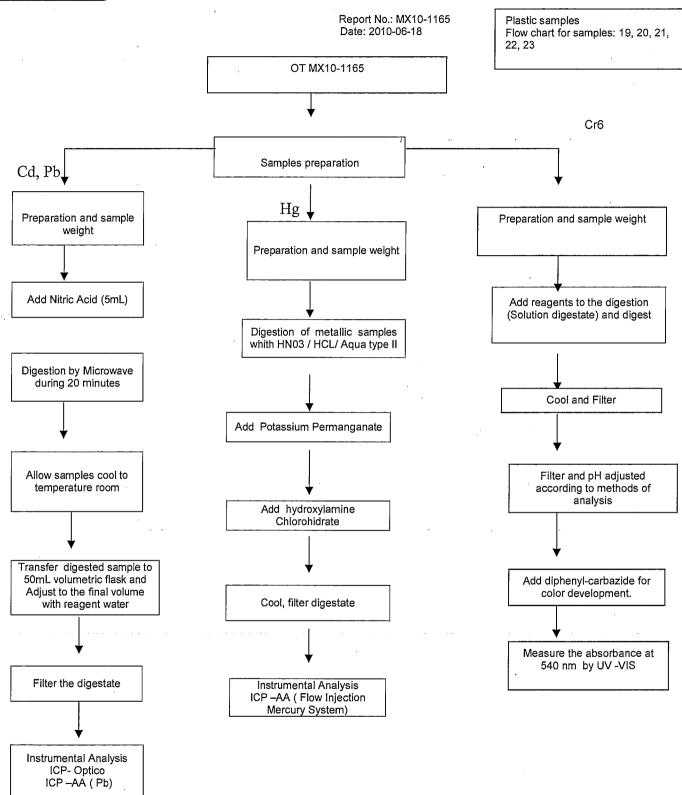
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# Intertek Testing Services de México, S.A. de C.V.

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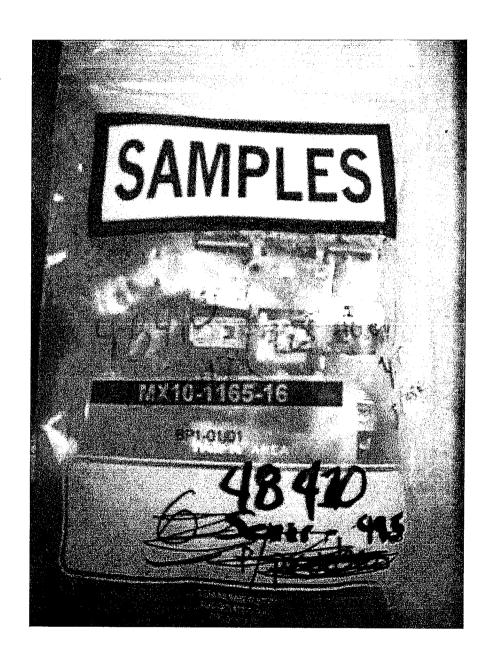




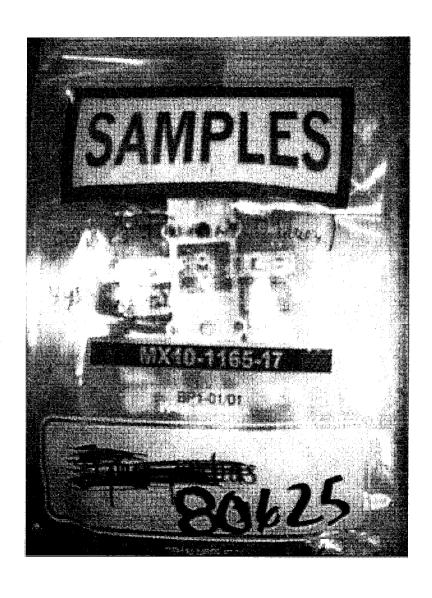
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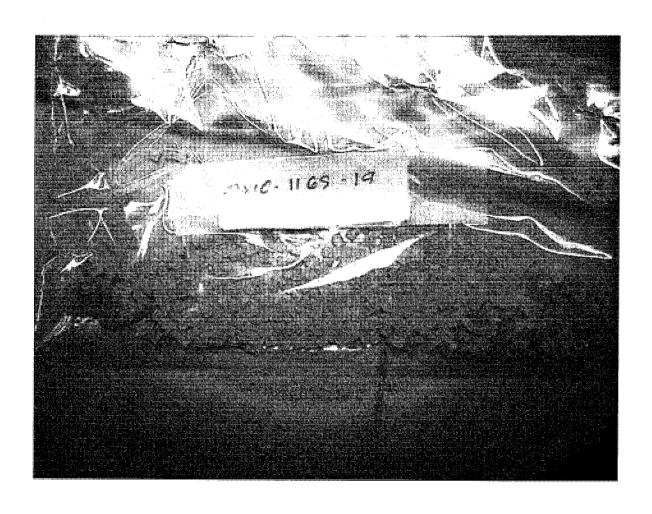
















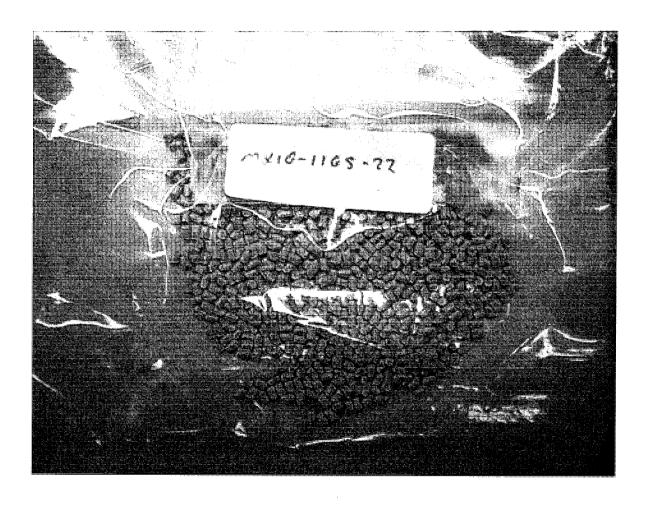




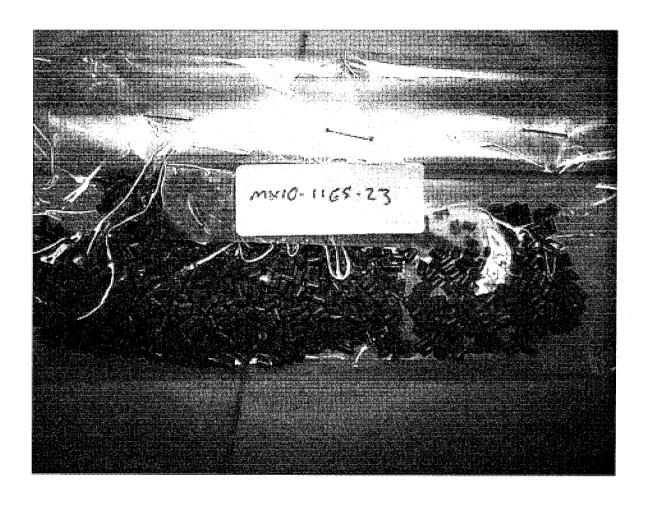














No.: CE/2008/78361 Date: 2008/08/04 Page: 1 of 7

LITTELFUSE INC. 

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description

HOUSING (ZYTEL)

Style/Item No.

057349

t

Sample Receiving Date

2008/07/30

**Testing Period** 

2008/07/30 TO 2008/08/04

\_\_\_\_\_\_

Test Result(s)

Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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No.: CE/2008/78361 Date: 2008/08/04 Page: 2 of 7

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

### Test Result(s)

PART NAME NO.1

**CREAM PLASTIC PELLETS** 

Test Item (s):	Unit	Method	MDL	Result
rest item (s).	Offic	Metriou	MIDL	No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for nonmetallic samples by UV/Vis Spectrometry.	2	n.d. *
Halogen		With reference to BS EN 14582:2007. Analysis was performed by IC method for F, CI , Br, I content.		
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
Halogen-Chlorine (CI) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.
Halogen-lodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for lodine content.	50	936

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No.: CE/2008/78361 Page: 3 of 7 Date: 2008/08/04

LITTELFUSE INC. 

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

Took Hom (a):	Unit	Method	MDL	Result
(5)		Method	MDL	No.1
Sum of PBBs			·	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl		With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.đ.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl	malka		5	n.d.
Sum of PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. "---" = Not Conducted

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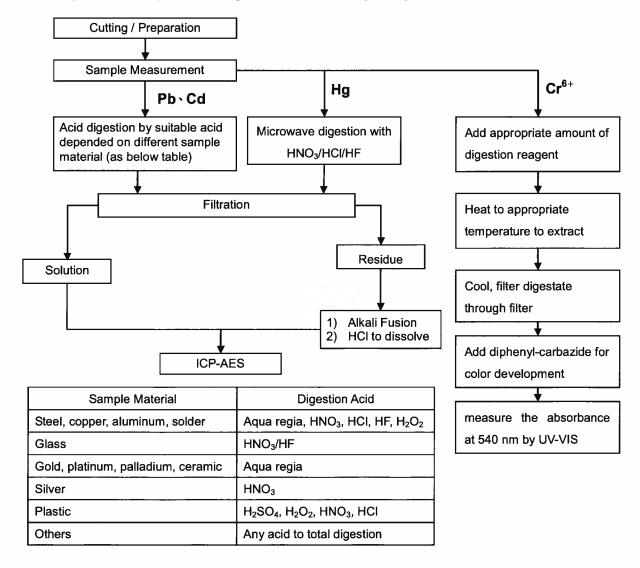


No.: CE/2008/78361 Date: 2008/08/04 Page: 4 of 7

LITTELFUSE INC. 1000 IC 0188 0000 08189 I VIOLO 100 100 100 I

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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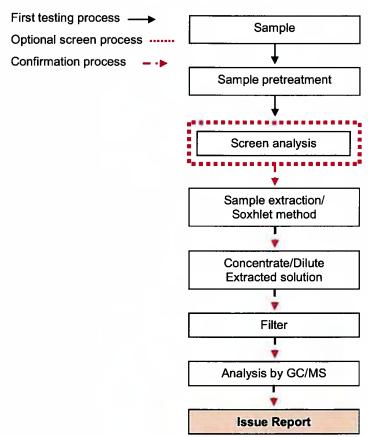
No.: CE/2008/78361 Page: 5 of 7 Date: 2008/08/04

LITTELFUSE INC. 

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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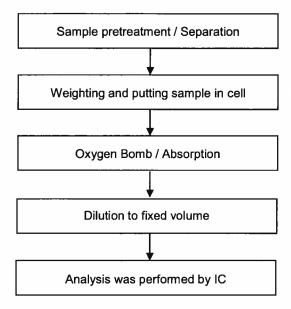
No.: CE/2008/78361 Date: 2008/08/04 Page: 6 of 7

LITTELFUSE INC. TOTAL TO THE STATE OF THE STATE

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Tin Lan
- 2) Name of the person in charge of measurement: Troy Chang



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LITTELFUSE INC. 

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



\*\* End of Report \*\*

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No.: CE/2008/85432 Date: 2008/08/25 Page: 1 of 8

LITTELFUSE INC. AND DESCRIPTION OF PERSONS AND PARTY.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description SOLDER (99% Tin)

Style/Item No. 692536 Sample Receiving Date 2008/08/21

Testing Period 2008/08/21 TO 2008/08/25

Test Result(s) Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 BUTTO FRANCISCO PROPERTY OF THE PARTY OF THE

### Test Result(s)

PART NAME NO.1

SILVER COLORED SOLDER WIRE

Test Item (s):	Unit	Method	MDL	Result No.1
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	216
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction		With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method. (See Note 6)	0.02mg/kg with 50 cm <sup>2</sup> surface area	Negative
Halogen		With reference to BS EN 14582:2007. Analysis was performed by IC method for F , CI , Br, I content.	)	
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
Halogen-Chlorine (CI) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007, Analysis was performed by IC method for Chlorine content,	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007, Analysis was performed by IC method for Bromine content.	50	n.d.
Halogen-lodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for lodine content.	50	n.d.

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No.: CE/2008/85432 Date: 2008/08/25 Page: 3 of 8

MEDICAL PROPERTY FRANCISCO

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

Test Item (s):	Unit	Method	MDL	Result
				No.1
Sum of PBBs	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	- 4	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs			-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

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ON ALCOHOLD EXTRACTOR LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

Note: 1 mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. "---" = Not Conducted

6. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer. Positive = Presence of Cr(VI) coating / surface layer; (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer. Positive = Presence of Cr(VI) coating / surface layer; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area

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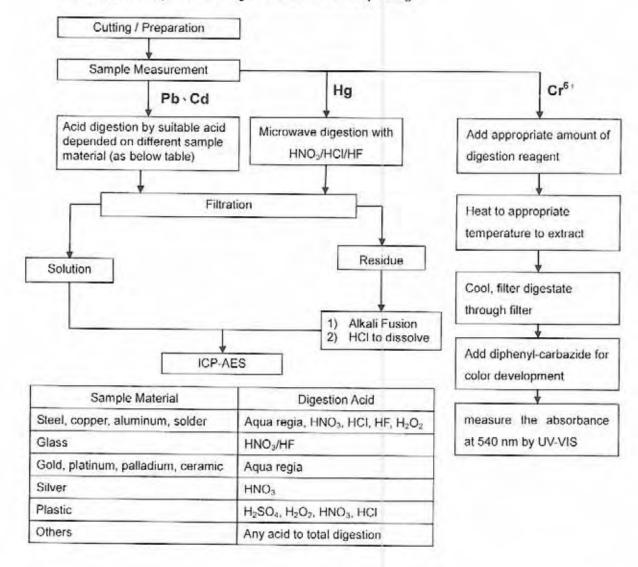


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LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

DE BUILDE BURE BURE BURE BURE

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement. Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 THE RESIDENCE OF THE PARTY OF T

### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen

First testing process -> Sample Optional screen process Confirmation process Sample pretreatment Screen analysis Sample extraction/ Soxhlet method Concentrate/Dilute Extracted solution Filter Analysis by GC/MS Issue Report

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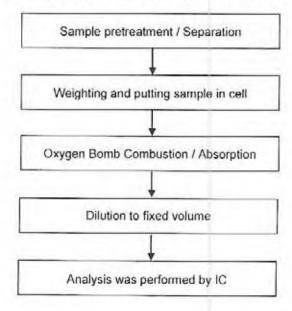
No.: CE/2008/85432 Date: 2008/08/25 Page: 7 of 8

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

THE RESERVE OF THE PROPERTY.

### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Alan Chen
- Name of the person in charge of measurement: Troy Chang



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No.: CE/2008/85432 Date: 2008/08/25 Page: 8 of 8

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 TRANSPORTED BY BEING BY THE REAL PROPERTY OF THE PARTY OF

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No.: CE/2008/15644

Date: 2008/01/24

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LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

#### The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description

BASE COLORANT

Style/Item No.

057892

Facility

DP-AUTOMOTIVE

Sample Receiving Date

2008/01/21

Testing Period

: 2008/01/21 TO 2008/01/24

**Test Requested** 

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

**Test Method** 

With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s)

Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2008/15644

Date: 2008/01/24

Page : 2 of 5

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

THE RESERVE OF THE PARTY OF THE

Test results by chemical method (Unit: mg/kg)

Sec. 100	Method	Result	MDI	
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	n.d.	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.		
Monobromobiphenyl		n.d.	5	
Dibromobiphenyl		n.d.	5	
Tribromobiphenyl		n.d.	5	
Tetrabromobiphenyl		n.d.	5	
Pentabromobiphenyl		n.d.	5	
Hexabromobiphenyl		n.d.	5	
Heptabromobiphenyl		n.d.	5	
Octabromobiphenyl		n.d.	5	
Nonabromobiphenyl		n.d.	5	
Decabromobiphenyl		n.d.	5	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n,d,		
Monobromobiphenyl ether		n.d.	5	
Dibromobiphenyl ether		n.d.	5	
Tribromobiphenyl ether		n.d.	5	
Tetrabromobiphenyl ether		n.d.	5	
Pentabromobiphenyl ether		n.d.	5	
Hexabromobiphenyl ether		n.d.	5	
Heptabromobiphenyl ether		n.d.	5	
Octabromobiphenyl ether		n.d.	5	
Nonabromobiphenyl ether		n.d.	5	
Decabromobiphenyl ether		n.d.	5	
Sum of PBDEs (Mono to Deca)		n.d.	-	

#### TEST PART DESCRIPTION:

NO.1 : WHITE PLASTIC PELLETS

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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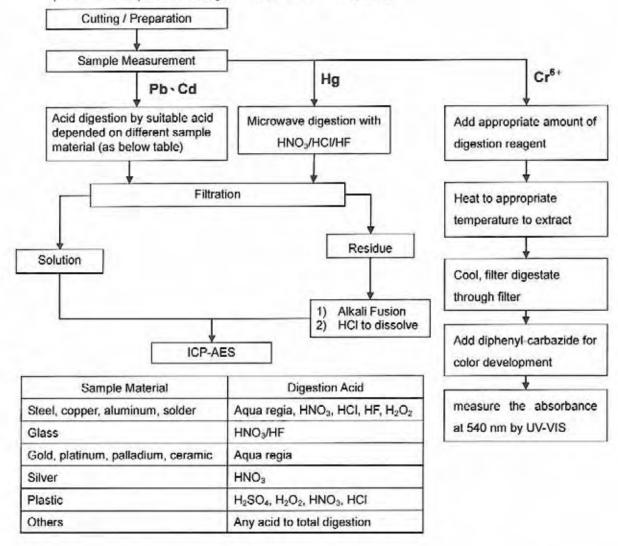


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LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016 THE RESERVE OF THE PERSON NAMED IN

- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2008/15644 Date: 2008/01/24

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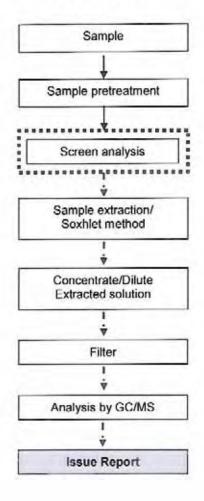
LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

THE RESERVE OF THE PERSON OF T

#### PBB/PBDE analytical FLOW CHART

First testing process Optional screen process Confirmation process





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LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016



\*\* End of Report \*\*



No.: CE/2008/15643 Date: 2008/01/24

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LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

THE OWNER OF THE PERSON OF

#### The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description

BASE COLORANT

Style/Item No.

057885

Facility

DP-AUTOMOTIVE

Sample Receiving Date

2008/01/21

**Testing Period** 

2008/01/21 TO 2008/01/24

**Test Requested** 

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s)

Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016 CONTRACTOR OF STREET

Test results by chemical method (Unit: mg/kg)

	Method	Result	MDI	
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	n.d.	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.		
Monobromobiphenyl		n.d.	5	
Dibromobiphenyl		n.d.	5	
Tribromobiphenyl		n.d.	5	
Tetrabromobiphenyl		n.d.	5	
Pentabromobiphenyl		n.d.	5	
Hexabromobiphenyl		n.d.	5	
Heptabromobiphenyl		n.d.	5	
Octabromobiphenyl		n.d.	5	
Nonabromobiphenyl		n.d.	5	
Decabromobiphenyl		n.d.	5	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	
Monobromobiphenyl ether		n.d.	5	
Dibromobiphenyl ether		n.d.	5	
Tribromobiphenyl ether		n.d.	5	
Tetrabromobiphenyl ether		n.d.	5	
Pentabromobiphenyl ether		n.d.	5	
Hexabromobiphenyl ether		n.d.	5	
Heptabromobiphenyl ether		n.d.	5	
Octabromobiphenyl ether		n.d.	5	
Nonabromobiphenyl ether		n.d.	5	
Decabromobiphenyl ether		n.d.	5	
Sum of PBDEs (Mono to Deca)		n.d.		

#### TEST PART DESCRIPTION:

NO.1 ORANGE PLASTIC PELLETS

Note: 1. mg/kg = ppm

2 n.d. = Not Detected

3. MDL = Method Detection Limit

According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

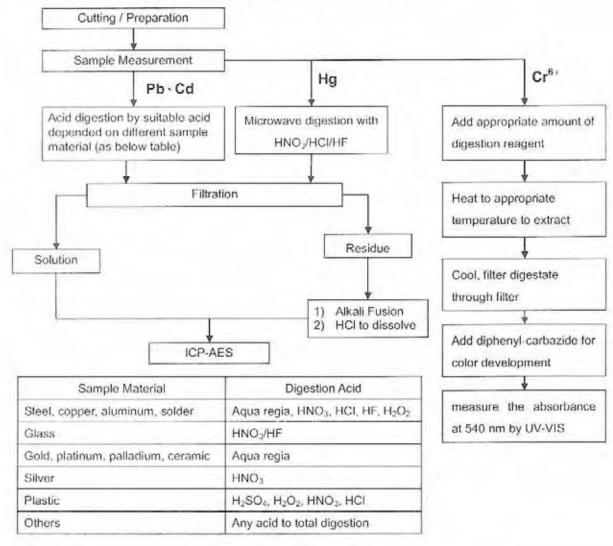


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LITTELFUSE INC. 800 E. NORTHWEST HWY, DES PLAINES, IL 60016 MARKET CONTRACTOR AND DESCRIPTION

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





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Date: 2008/01/24

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LITTELFUSE INC. 800 E. NORTHWEST HWY, DES PLAINES, IL 60016

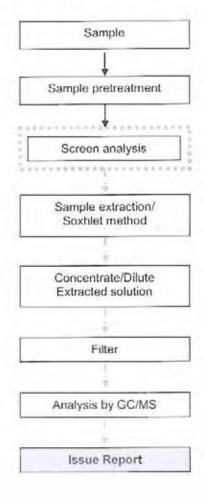
#### DANIEL BERTHARD BERTHARD

#### PBB/PBDE analytical FLOW CHART

First testing process

Optional screen process

Confirmation process





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LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

MARKET CONTRACTOR STREET



.. End of Report ..



No.: CE/2008/15642 Date: 2008/01/24

Page : 1 of 5

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

SERVICE STREET, STREET

### The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : BASE COLORANT

Style/Item No. : 057787

Facility : DP-AUTOMOTIVE

Sample Receiving Date : 2008/01/21

Testing Period : 2008/01/21 TO 2008/01/24

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2008/15642 Date: 2008/01/24

Page : 2 of 5

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

THE RESERVE OF THE RE

Test results by chemical method (Unit: mg/kg)

	Method	Result		
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	n.d.	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.	-	
Monobromobiphenyl		n.d.	5	
Dibromobiphenyl		n.d.	5	
Tribromobiphenyl		n.d.	5	
Tetrabromobiphenyl		n.d.	5	
Pentabromobiphenyl		n.d.	5	
Hexabromobiphenyl		n.d.	5	
Heptabromobiphenyl		n.d.	5	
Octabromobiphenyl		n.d.	5	
Nonabromobiphenyl		n.d.	5	
Decabromobiphenyl		n.d.	5	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.		
Monobromobiphenyl ether		n.d.	5	
Dibromobiphenyl ether		n.d.	5	
Tribromobiphenyl ether		n.d.	5	
Tetrabromobiphenyl ether		n.d.	5	
Pentabromobiphenyl ether		n.d.	5	
Hexabromobiphenyl ether		n.d.	5	
Heptabromobiphenyl ether		n.d.	5	
Octabromobiphenyl ether		n.d.	5	
Nonabromobiphenyl ether		n.d.	5	
Decabromobiphenyl ether		n.d.	5	
Sum of PBDEs (Mono to Deca)		n.d.		

#### TEST PART DESCRIPTION:

NO.1

RED PLASTIC PELLETS

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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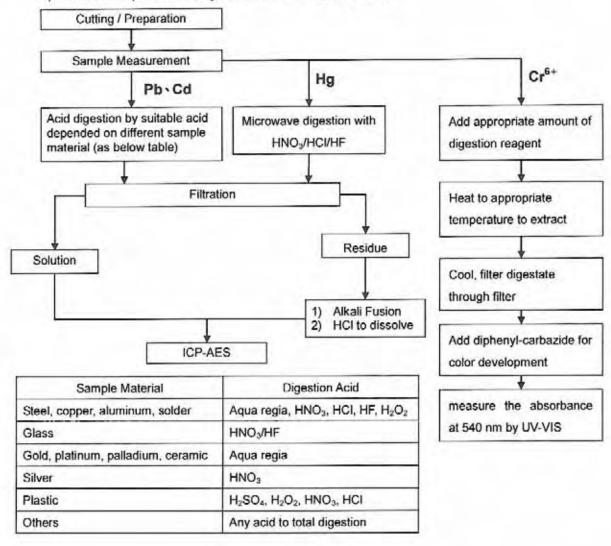


No.: CE/2008/15642 Date: 2008/01/24

Page : 3 of 5

LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016 MEN AND COMMERCED TO THE REPORT OF THE

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6\* test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2008/15642

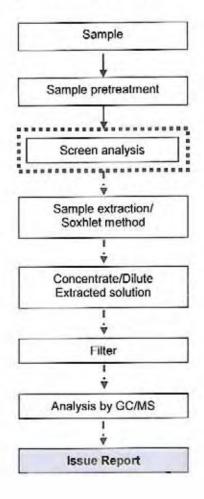
Date: 2008/01/24

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LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016 

#### PBB/PBDE analytical FLOW CHART

First testing process Optional screen process Confirmation process





No.: CE/2008/15642 Date: 2008/01/24

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LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

DESCRIPTION OF THE PERSON OF



\*\* End of Report \*\*



No.: CE/2008/15639

Date: 2008/01/24

Page : 1 of 5

LITTELFUSE INC.

800 E. NORTHWEST HWY, DES PLAINES, IL 60016

DOUGH COMMISSION OF STREET

#### The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description

BASE COLORANT

Style/Item No.

057784

Facility

DP-AUTOMOTIVE

Sample Receiving Date

2008/01/21

**Testing Period** 

2008/01/21 TO 2008/01/24

**Test Requested** 

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s)

Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2008/15639

Date: 2008/01/24

Page : 2 of 5

LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016 COLUMN TRADERS DE LE RECENTATION DE

Test results by chemical method (Unit: mg/kg)

200000000000000000000000000000000000000	Method	Result	MDL	
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d,	2	
Lead (Pb)	(2)	n.d.	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.		
Monobromobiphenyl		n.d.	5	
Dibromobiphenyl		n.d.	5	
Tribromobiphenyl		n.d.	5	
Tetrabromobiphenyl		n.d.	5	
Pentabromobiphenyl		n.d.	5	
Hexabromobiphenyl		n.d.	5	
Heptabromobiphenyl		n.d.	5	
Octabromobiphenyl		n.d.	5	
Nonabromobiphenyl		n.d.	5	
Decabromobiphenyl		n.d.	5	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.		
Monobromobiphenyl ether		n.d.	5	
Dibromobiphenyl ether		n.d.	5	
Tribromobiphenyl ether		n.d.	5	
Tetrabromobiphenyl ether		n.d.	5	
Pentabromobiphenyl ether		n.d.	5	
Hexabromobiphenyl ether		n.d.	5	
Heptabromobiphenyl ether		n.d.	5	
Octabromobiphenyl ether		n.d.	5	
Nonabromobiphenyl ether		n.d.	5	
Decabromobiphenyl ether		n.d.	5	
Sum of PBDEs (Mono to Deca)		n.d.		

#### TEST PART DESCRIPTION:

BLUE PLASTIC PELLETS NO.1

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

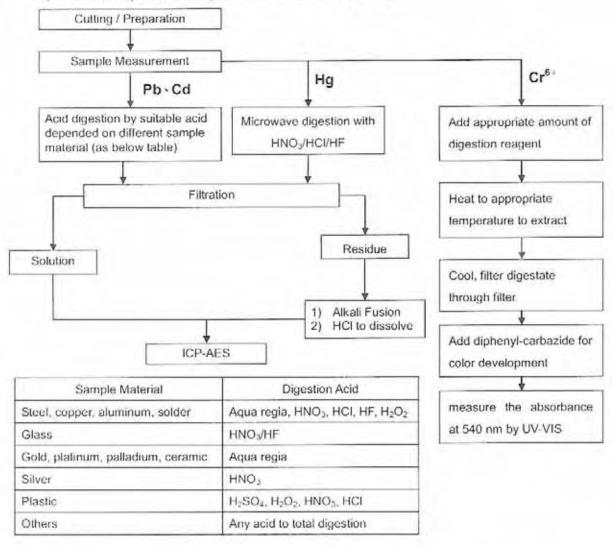
5. "-" = Not Regulated



No.: CE/2008/15639 Date: 2008/01/24 Page: 3 of 5

LITTELFUSE INC. 800 E. NORTHWEST HWY, DES PLAINES, IL 60016 MINISTERNAL PROPERTY.

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
   (Cr<sup>5\*</sup> test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2008/15639

Date: 2008/01/24

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LITTELFUSE INC. 800 E. NORTHWEST HWY, DES PLAINES, IL 60016

#### 

#### PBB/PBDE analytical FLOW CHART

Optional screen process
Confirmation process

Sample pretreatment

Screen analysis

Sample extraction/
Soxhlet method

Concentrate/Dilute
Extracted solution

Filter

Analysis by GC/MS

Issue Report



No.: CE/2008/15639 Date: 2008/01/24 Page : 5 of 5

MERCANDO DE LA PROPERTICIONE DE LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016

CE/2008/15639



\*\* End of Report \*\*



Date: 2008/06/25 Page: 1 of 7 No.: CE/2008/65787

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 THE RESERVE OF THE PERSON NAMED IN THE PERSON NAMED IN

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description

057891 Part Number

PIEDRAS / AUTOMOTIVE Facility

2008/06/19 Sample Receiving Date

2008/06/19 TO 2008/06/25 Testing Period

VIOLET COLORANT

Please refer to next page(s). Test Result(s)

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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Date: 2008/06/25 Page: 2 of 7 No.: CE/2008/65787

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 

#### Test Result(s)

PART NAME NO.1

BLACK PLASTIC PELLETS

			MDL	Result
Test Item (s):	Unit	Method	MDL	No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non- metallic samples by UV/Vis Spectrometry.	2	n.d.
Halogen		With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl , Br, I content.		+
Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
Halogen-Chlorine (CI) (CAS No.: 007782-50-5)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	120
Halogen-lodine (I) (CAS No.: 007553-56-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for lodine content.	50	n.d.

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Page: 3 of 7 Date: 2008/06/25 No.: CE/2008/65787

MARKET CHANGE IN COLUMN TO BE

n.d.

n.d.

n.d.

n.d.

n.d.

5

5

5

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

Test Item (s):	1.1512	nit Method	MDL	Result
	Unit			No.1
Sum of PBBs			7	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl		1 -	5	n.d.
Pentabromobiphenyl		With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs (Mono to Nona)	mg/kg			n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.

Note: 1. mg/kg = ppm

Heptabromodiphenyl ether

Octabromodiphenyl ether

Nonabromodiphenyl ether

Decabromodiphenyl ether

2. n.d. = Not Detected

Sum of PBDEs (Mono to Deca)

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. "---" = Not Conducted

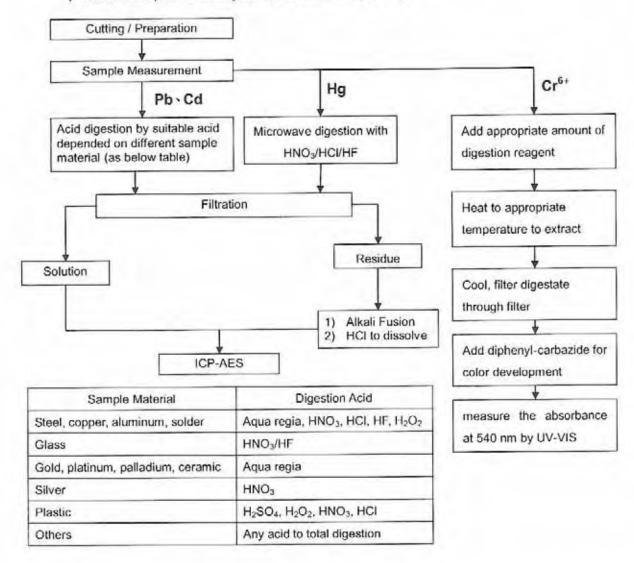
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LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 THE REPORT OF THE PARTY OF THE PARTY.

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
   (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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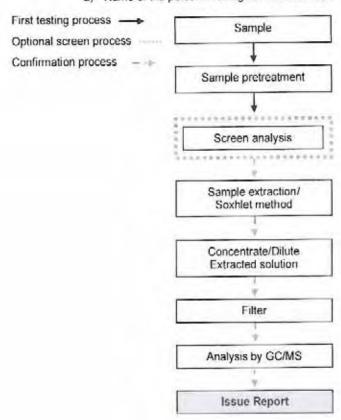


Date: 2008/06/25 Page: 5 of 7 No.: CE/2008/65787

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 THE RESERVE THE PARTY OF THE PA

#### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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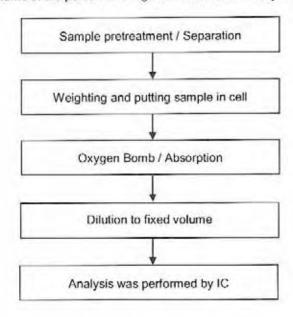


Page: 6 of 7 No.: CE/2008/65787 Date: 2008/06/25

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 MANAGEMENT OF THE PARTY.

#### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Tin Lan
- 2) Name of the person in charge of measurement: Troy Chang



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WHEN THE BORNEY WERE THE STATE LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

# CE/2008/65787



" End of Report "

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SON Tolwar Ltd.

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No.: CE/2008/94099 Date: 2008/09/23 Page: 1 of 7

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : WHITE FOIL
Style/Item No. : 425498
Sample Receiving Date : 2008/09/17

Testing Period : 2008/09/17 TO 2008/09/23

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD. Chemical Laboratory – Taipei

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Date: 2008/09/23 Page: 2 of 7 No.: CE/2008/94099

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016 

#### Test Result(s)

PART NAME NO.1

WHITE FOIL

- 40 - 73		B8 - 411	MDL	Result
Test Item (s):	Unit	Method	MIDL	No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for nonmetallic samples by UV/Vis Spectrometry.	2	n.d.
Halogen	-	With reference to BS EN 14582:2007. Analysis was performed by IC method for F, CI , Br, I content.		
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
Halogen-Chlorine (CI) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	10500
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for lodine content.	50	n.d.

offenders may be prosecuted to the fullest extent of the law.



Date: 2008/09/23 Page: 3 of 7 No.: CE/2008/94099

LITTELFUSE INC. 800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

Test Item (s):	11.14	Method	MDL	Result
	Unit			No.1
Sum of PBBs			-	n.d.
Monobromobiphenyl	7		5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl	3		5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl		1 [	5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl	<u> </u>	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBDEs			4	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. "---" = Not Conducted

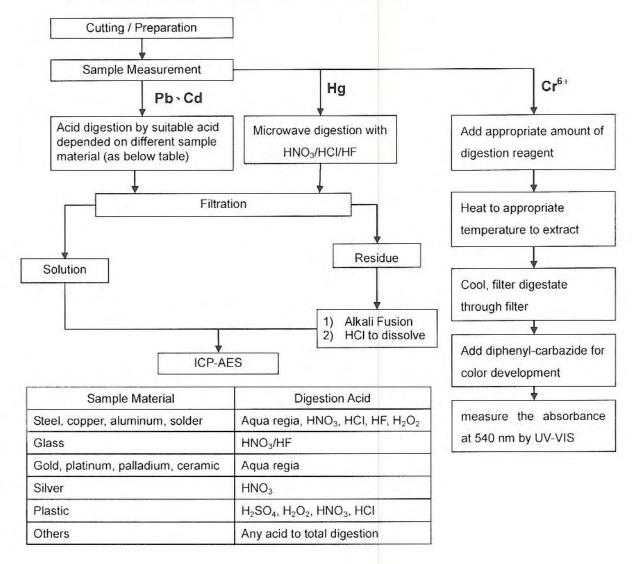
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- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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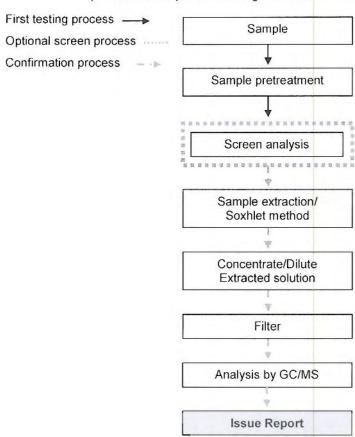


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#### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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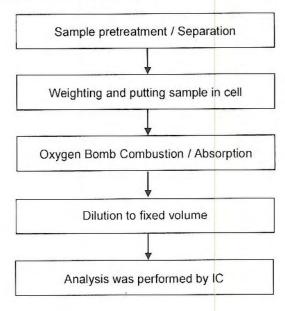


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#### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Alan Chen
- 2) Name of the person in charge of measurement: Troy Chang



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\*\* End of Report \*\*

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