



ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: 2AG, 3AG Shock Safe Holder

Product #: 345 Series

Issue Date: July 01, 2010

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes. In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by:

Kristine L. de Guzman
Kristine L. de Guzman

<Global EHS Coordinator>

(1) Parts, sub-materials and unit parts

This document covers the 2AG, 3AG Shock Safe Holder RoHS-Compliant series products manufactured by Littelfuse, Inc.

< Raw Materials Used

Please see Table 1

(2) The ICP data on all measurable substances

Please see appropriate pages as identified in Table 1

Remarks :

Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	875-460	Side Terminal	3-10
2	883-048	Clip	3-10
3	912-296	Spring	3-10
4	070126	Wire-Stainless Steel	3-10
5	057838	Knob –Polycarbonate Black(RoHS/Halogen)	3-10
6	057277	Body-Black Valox	3-10
7	875-461	Back Terminal	11-15
8	057275	Knob -Grey Valox (RoHS/Halogen)	16-22
9	057269	Knob -Black Valox	23-30
10	891-018-003	Insert	31-35

RESULTS REPORT

INTERTEK TESTING SERVICES

DE MEXICO SA DE CV

LABORATORIO CD. DE MEXICO

DELIVER TO:

Littelfuse, S.A. de C.V.
Poder Judicial No. 1005, Col. Burócratas, Piedras Negras,
Coahuila, C.P. 26020

ATTENTION: Berenice Casas / Mario Falcón

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Poder Judicial No. 1005, Col. Burócratas, Piedras Negras, Coahuila, C.P. 26020
Berenice Casas / Mario Falcón

SAMPLE DESCRIPTION

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

Sample Description	NP
	1) P/N: 902-122 Serie: L600XXX-XPQ
	2) P/N: 903-117 Serie: L600XXX-XPQ
	3) P/N: 883-057 Serie: 153
	4) P/N: 902-140 Serie: L600XXX-XPQ
	5) P/N: 875-460 Serie: 345
	6) P/N: 883-050 Serie: 345 Int.
	7) P/N: 882-426 Serie: 345 Int.
	8) P/N: 883-048 Serie: 345 Int.
	9) P/N: 883-055 Serie: 345 Int.
	10) P/N: 912-296 Serie: 345 Int.
	11) P/N: 070126 Serie: 345 Int.
	12) P/N: 912-297 Serie: 345 Int.
	13) P/N: 875-524 Serie: 345 Int.
	14) P/N: 875-521 Serie: 345 Int.
	15) P/N: 891-023 Serie: 345 Int.
Item No.	16) P/N: 923-001 Serie: FLQ/BLF
	17) P/N: 082394 Serie: KLKR
	18) P/N: 082386 Serie: FLQ
	19) P/N: 082342 Serie: SPF
	20) P/N: 0297005 WXNV Serie: 153
	21) P/N: 868-069 Serie: L600XXX-XPQ
	22) P/N: 057256 Serie: 345 Int.
	23) P/N: 057838 Serie: 345 Int.
	24) P/N: 153007-4 Serie: 153
	25) P/N: 885-018 Serie: 153
	26) P/N: 3453RF 1-1 Serie: 345 Int.
	27) P/N: 057277 Serie: 345 Int.
	28) P/N: 909-161 / 909-171 Serie: FLQ/SPE
	29) P/N: 901-182 Serie: KLKR/BLS
	30) P/N: 901-134 Serie: 345
	31) P/N: 087284 Serie: SPE

Country of Origin NP
Buyer's Name NP
Supplier's Name NP
Date sample received 2010-04-20
Testing period 2010-04-29 to 2009-05-22

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
1	P/N: 902-122 Serie: L600XXX-XPQ	Pass See Result summary	---	---
2	P/N: 903-117 Serie: L600XXX-XPQ	Pass See Result summary	---	---
3	P/N: 883-057 Serie 153	Pass See Result summary	---	---
4	P/N: 902-140 Serie L600XXX-XPQ	Pass See Result summary	---	---
5	P/N: 875-460 Serie 345	Pass See Result summary	---	---
6	P/N: 883-050 Serie: 345 Int.	Pass See Result summary	---	---
7	P/N: 882-426 Serie: 345 Int.	Pass See Result summary	---	---
8	P/N: 883-048 Serie: 345 Int.	Pass See Result summary	---	---
9	P/N: 883-055 Serie: 345 Int.	Pass See Result summary	---	---
10	P/N: 912-296 Serie: 345 Int.	Pass See Result summary	---	---
11	P/N: 070126 Serie: 345 Int.	Pass See Result summary	---	---
12	P/N: 912-297 Serie: 345 Int.	Pass See Result summary	---	---
13	P/N: 875-524 Serie: 345 Int.	Pass See Result summary	---	---
14	P/N: 875-521 Serie: 345 Int.	Pass See Result summary	---	---
15	P/N: 891-023 Serie: 345 Int.	Pass See Result summary	---	---

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
16	P/N: 923-001 Serie: FLQ/BLF	Pass See Result summary	---	---
17	P/N: 082394 Serie: KLKR	Pass See Result summary	---	---
18	P/N: 082386 Serie: FLQ	Pass See Result summary	---	---
19	P/N: 082342 Serie: SPF	Pass See Result summary	---	---
20	P/N: 0297005 WXNV Serie: 153	Pass See Result summary	---	---
21	P/N: 868-069 Serie: L600XXX-XPQ	Pass See Result summary	---	---
22	P/N: 057256 Serie: 345 Int.	Pass See Result summary	---	---
23	P/N: 057838 Serie: 345 Int.	Pass See Result summary	---	---
24	P/N: 153007-4 Serie: 153	Pass See Result summary	---	---
25	P/N: 885-018 Serie: 153	Pass See Result summary	---	---
26	P/N: 3453RF1-1 Serie: 345 Int.	Pass See Result summary	---	---
27	P/N: 057277 Serie: 345 Int.	Pass See Result summary	---	---
28	P/N: 909-161 / 909-171 Serie: FLQ/SPE	Pass See Result summary	---	---
29	P/N: 901-182 Serie: KLKR/BLS	Pass See Result summary	---	---
30	P/N: 901-134 Serie: 345	Pass See Result summary	---	---
31	P/N: 087284 Serie: SPE	Pass See Result summary	---	---

TEST CONDUCTED

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

- 1) P/N: 902-122 Serie: L600XXX-XPQ
- 2) P/N: 903-117 Serie: L600XXX-XPQ
- 3) P/N: 883-057 Serie 153

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(1)	(2)	(3)	
Cadmium (Cd) content	58,493	25,093	ND	0,01% (100 ppm)
Lead (Pb) content	17,26	5,70	19,038	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	0,210	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

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

- 4) P/N: 902-140 Serie L600XXX-XPQ
- 5) P/N: 875-460 Serie 345
- 6) P/N: 883-050 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(4)	(5)	(6)	
Cadmium (Cd) content	15,321	ND	ND	0,01% (100 ppm)
Lead (Pb) content	3,661	19,58	13,86	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	0,043	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

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

7) P/N: 882-426 Serie: 345 Int.

8) P/N: 883-048 Serie: 345 Int.

9) P/N: 883-055 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(7)	(8)	(9)	
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	29,46	14,91	14,09	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

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

10) P/N: 912-296 Serie: 345 Int.

11) P/N: 070126 Serie: 345 Int.

12) P/N: 912-297 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(10)	(11)	(12)	
Cadmium (Cd) content	39,706	41,600	39,210	0,01% (100 ppm)
Lead (Pb) content	23,431	25,500	22,193	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

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

23) P/N: 057838 Serie: 345 Int.

24) P/N: 153007-4 Serie: 153

25) P/N: 885-018 Serie: 153

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(23)	(24)	(25)	
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 ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	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	---
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	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	---

TEST CONDUCTED

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

26) P/N: 3453RF1-1 Serie: 345 Int.

27) P/N: 057277 Serie: 345 Int.

28) P/N: 909-161 / 909-171 Serie: FLQ/SPE

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(26)	(27)	(28)	
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 ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	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	---
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	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	---

Test Report

No. : CE/2008/A3664 Date : 2008/10/21

Page : 1 of 5

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 : TERMINAL
Style/Item No. : 875-461
Sample Receiving Date : 2008/10/16
Testing Period : 2008/10/16 TO 2008/10/21

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

Test Method : With reference to IEC 62321/2nd CDV (111/95/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 metallic samples by Spot test / boiling water extraction Method.

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


Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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Test Report

No. : CE/2008/A3664

Date : 2008/10/21

Page : 2 of 5

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



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

Test Item (s):	Method (Refer to)	Result		MDL
		No.1	No.2	
Cadmium (Cd)	(1)	n.d.	n.d.	2
Lead (Pb)	(2)	123	21	2
Mercury (Hg)	(3)	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	Negative	See Note 4

TEST PART DESCRIPTION:

NO.1 : PLATING LAYER OF SILVER COLORED METAL

NO.2 : BASE MATERIAL OF SILVER COLORED METAL

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. 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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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

Member of the SGS Group (SGS SA)

Test Report

No. : CE/2008/A3664 Date : 2008/10/21

Page : 3 of 5

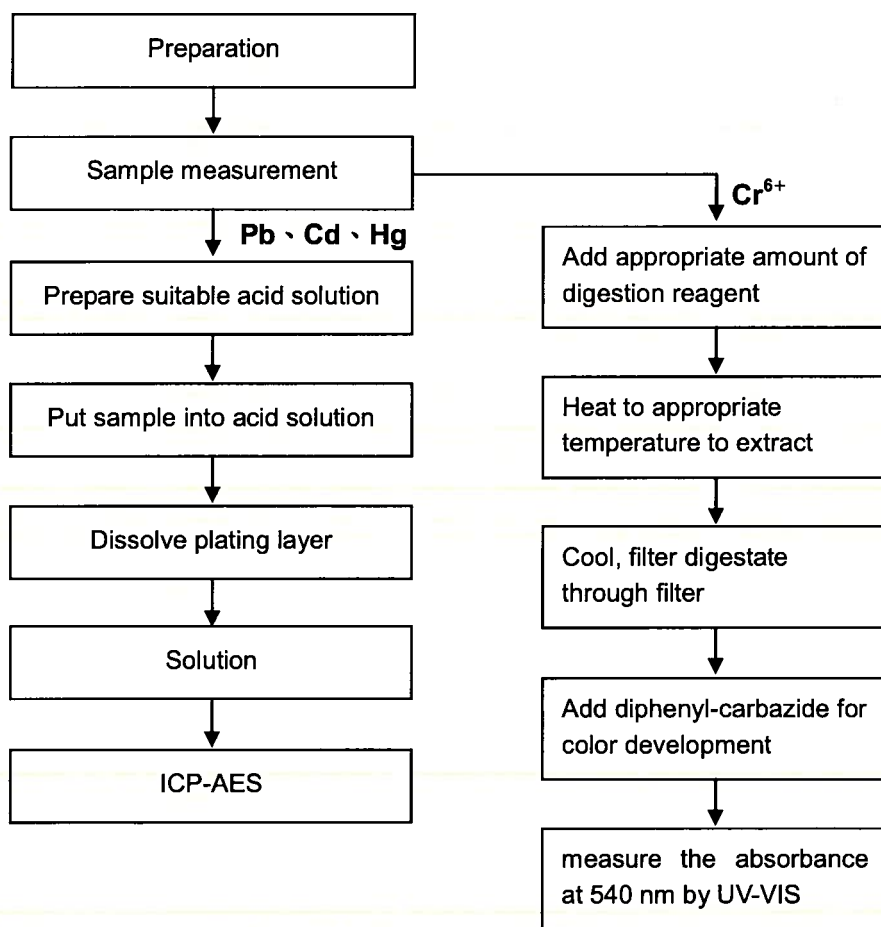
LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



- NO.1
- 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

Flow Chart of Stripping method for metal analysis



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Test Report

No. : CE/2008/A3664 Date : 2008/10/21

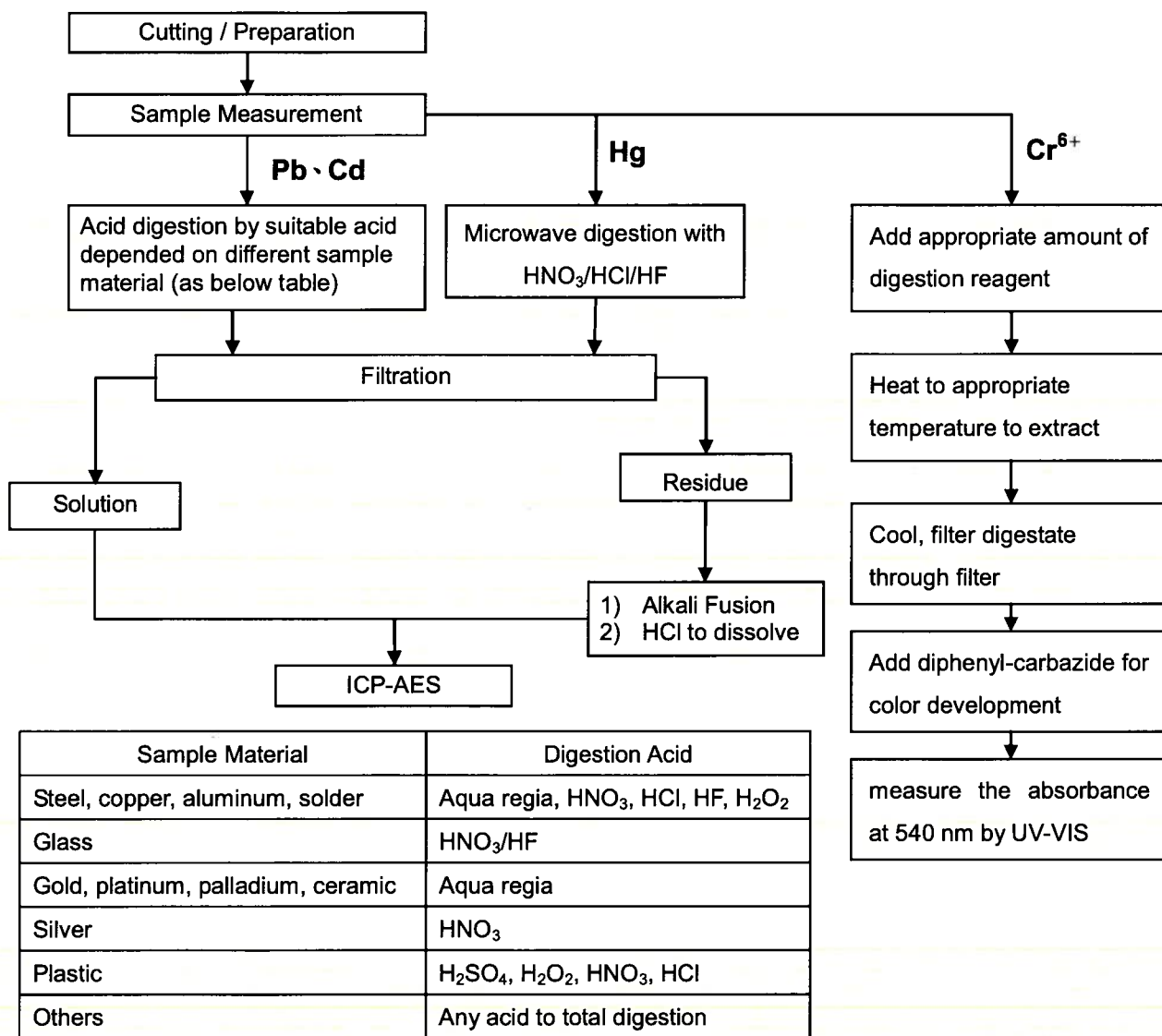
Page : 4 of 5

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



- NO.2
- 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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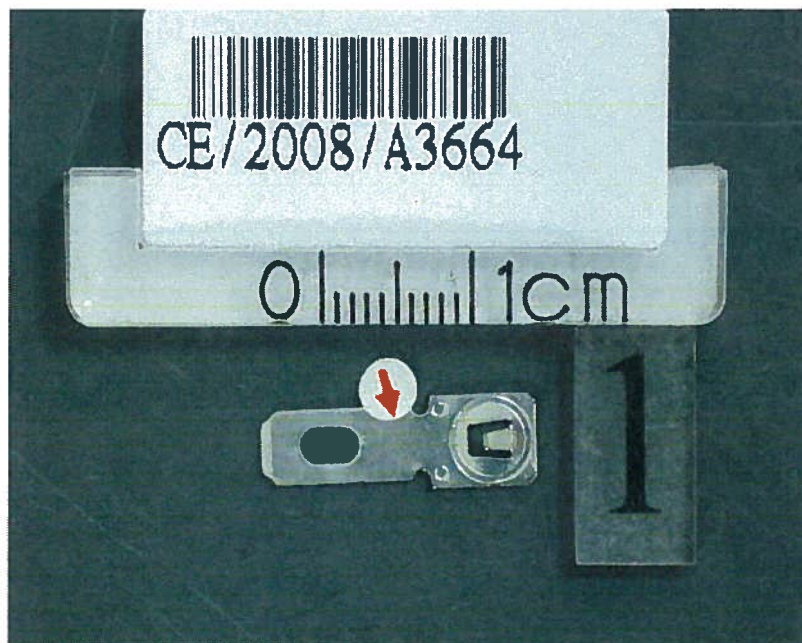
Test Report

No. : CE/2008/A3664 Date : 2008/10/21

Page : 5 of 5

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**** End of Report ****

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

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Test Report

No. : CE/2008/A4966 Date : 2008/10/27 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 : GRAY KNOB
Style/Item No. : 057275
Sample Receiving Date : 2008/10/22
Testing Period : 2008/10/22 TO 2008/10/27

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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Test Report

No. : CE/2008/A4966 Date : 2008/10/27 Page : 2 of 7

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



Test Result(s)

PART NAME NO.1 : GRAY PLASTIC

Test Item (s):	Unit	Method	MDL	Result
				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	36
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.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	1170
Halogen-Chlorine (Cl) (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	51600
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.

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Test Report

No. : CE/2008/A4966 Date : 2008/10/27 Page : 3 of 7

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.	-	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.

- 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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Test Report

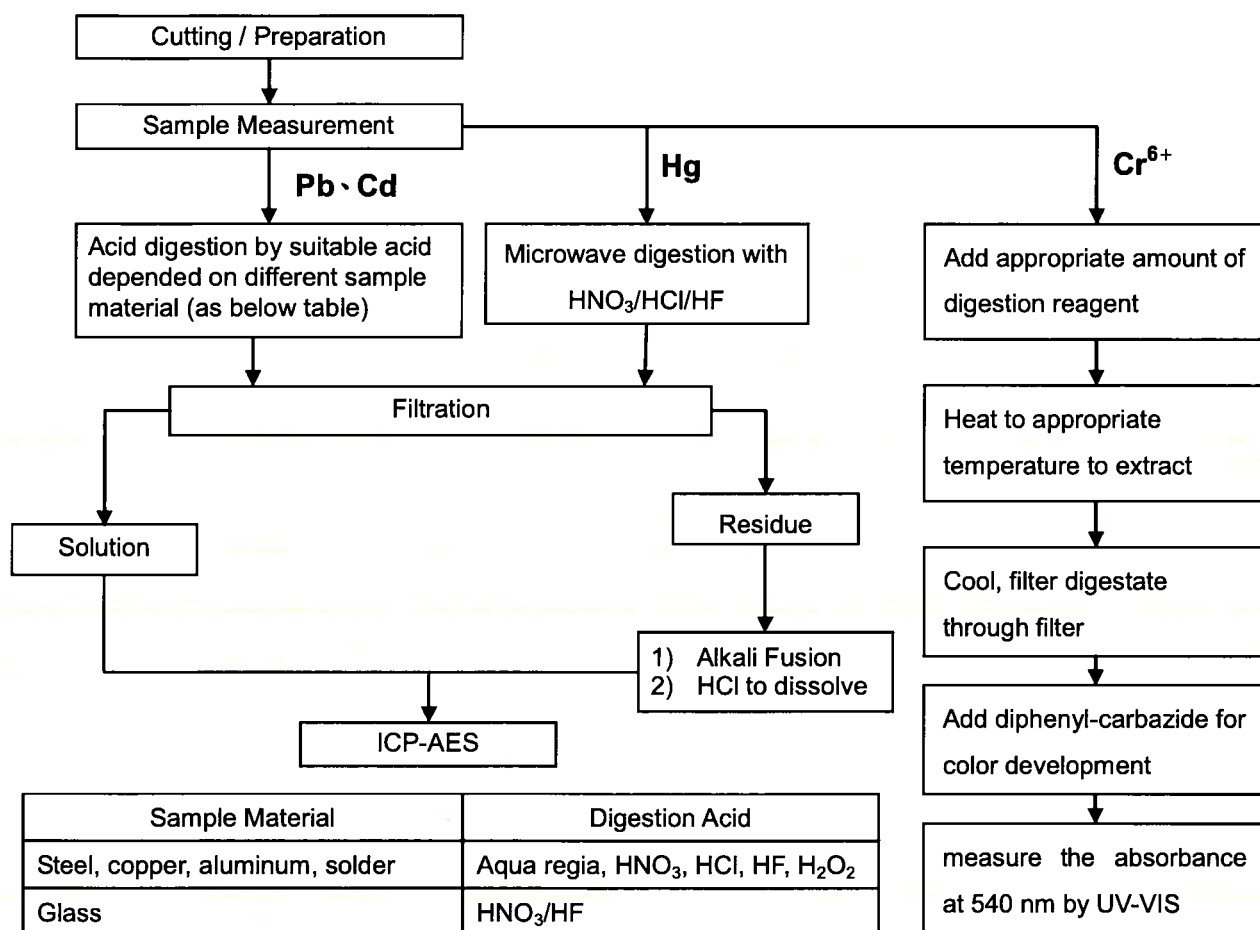
No. : CE/2008/A4966 Date : 2008/10/27 Page : 4 of 7

LITTELFUSE INC.

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



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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No. : CE/2008/A4966 Date : 2008/10/27 Page : 5 of 7

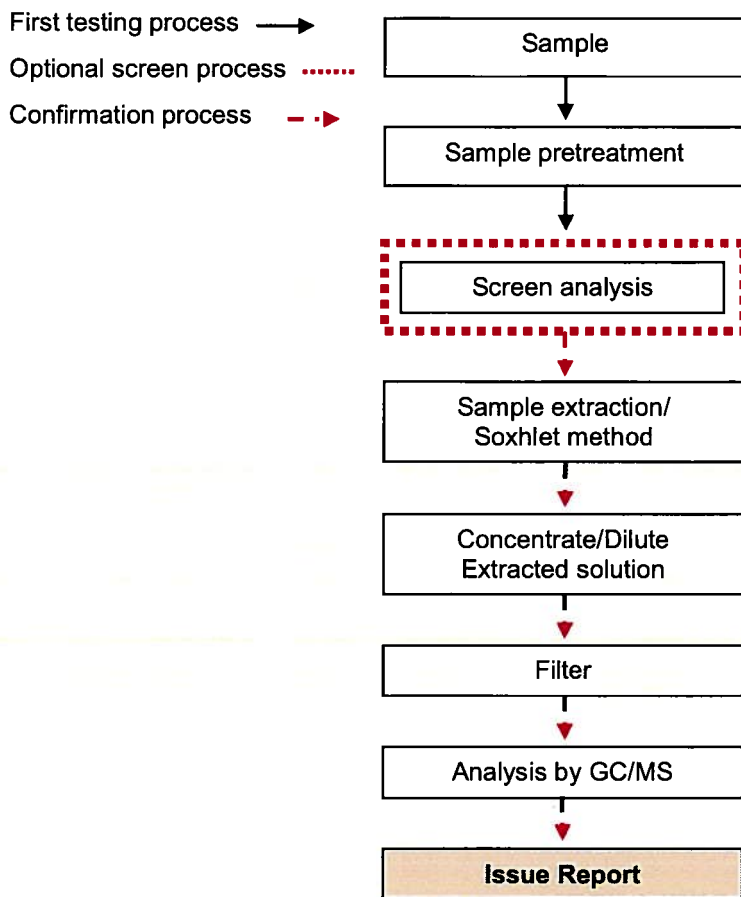
LITTELFUSE INC.

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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Test Report

No. : CE/2008/A4966 Date : 2008/10/27 Page : 6 of 7

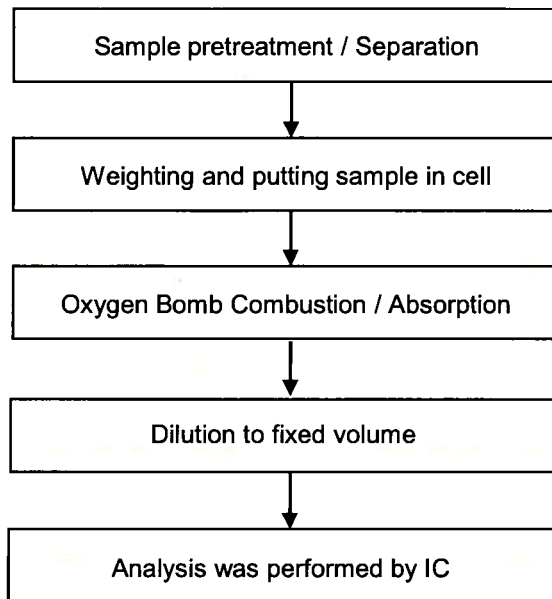
LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



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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Test Report

No. : CE/2008/A4966 Date : 2008/10/27 Page : 7 of 7

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



**** End of Report ****

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Test Report

Number : TWNC00108471
Page 1 Of 8

Applicant: Littelfuse, Inc.
800 E. Northwest Hwy
Desplaines Il 60016

Date : MAR 02, 2009

Sample Description:

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

Part Description : Cover
Part Number : 057269
Date Sample Received : FEB 24, 2009
Date Test Started : FEB 24, 2009

Test Conducted :

As requested by the applicant, for details please refer to attached pages.

Authorized By:
On Behalf Of Intertek Testing Services
Taiwan Limited



K. Y. Liang
Director

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approval of the laboratory.

Intertek Testing Services Taiwan Ltd.

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Number: TWNC00108471
Page 2 Of 8

Test Conducted

(I) Test Result Summary :

Testing Item	Result (ppm)
	Black Plastic
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	28
Mercury (Hg) content	ND
Chromium VI (Cr ⁶⁺) content	ND
Polybrominated Biphenyls (PBBs)	
Monobrominated Biphenyls (MonoBB)	ND
Dibrominated Biphenyls (DiBB)	ND
Tribrominated Biphenyls (TriBB)	ND
Tetrabrominated Biphenyls (TetraBB)	ND
Pentabrominated Biphenyls (PentaBB)	ND
Hexabrominated Biphenyls (HexaBB)	ND
Heptabrominated Biphenyls (HeptaBB)	ND
Octabrominated Biphenyls (OctaBB)	ND
Nonabrominated Biphenyls (NonaBB)	ND
Decabrominated Biphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers (PBDEs)	
Monobrominated Diphenyl Ethers (MonoBDE)	ND
Dibrominated Diphenyl Ethers (DiBDE)	ND
Tribrominated Diphenyl Ethers (TriBDE)	ND
Tetrabrominated Diphenyl Ethers (TetraBDE)	ND
Pentabrominated Diphenyl Ethers (PentaBDE)	ND
Hexabrominated Diphenyl Ethers (HexaBDE)	ND
Heptabrominated Diphenyl Ethers (HeptaBDE)	ND
Octabrominated Diphenyl Ethers (OctaBDE)	ND
Nonabrominated Diphenyl Ethers (NonaBDE)	ND
Decabrominated Diphenyl Ether (DecaBDE)	ND
Halogen Content	
Fluorine (F)	370
Chlorine (Cl)	ND
Bromine (Br)	41667
Iodine (I)	ND

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg
ND = Not detected

Responsibility Of Chemist : Irene Chiou / Kevin Liu / Cathy Chen

Date Sample Received : Feb 24, 2009

Testing Period : Feb 24, 2009 to Feb 27, 2009

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Test Conducted

(II) RoHS Requirement:

<u>Restricted Substances</u>	<u>Limits</u>
Cadmium (Cd) Content	0.01% (100ppm)
Lead (Pb) Content	0.1% (1000ppm)
Mercury (Hg) Content	0.1% (1000ppm)
Chromium VI (Cr ⁶⁺) Content	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000ppm)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000ppm)

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

(III) Test Method:

<u>Testing Item</u>	<u>Testing Method</u>	<u>Reporting Limit</u>
Cadmium (Cd) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Lead (Pb) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Mercury (Hg) content	With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Chromium VI (Cr ⁶⁺) Content	With reference to USEPA 3060A & 7196A, by alkaline digestion and determined by UV-Vis Spectrophotometer	1 ppm
Polybrominated Biphenyls (PBBs)	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Halogen Content	With reference to EN 14582:2007 by combustion flask with oxygen and determined by ion chromatography	50 ppm

Remark: Reporting limit = Quantitation limit of analyte in sample

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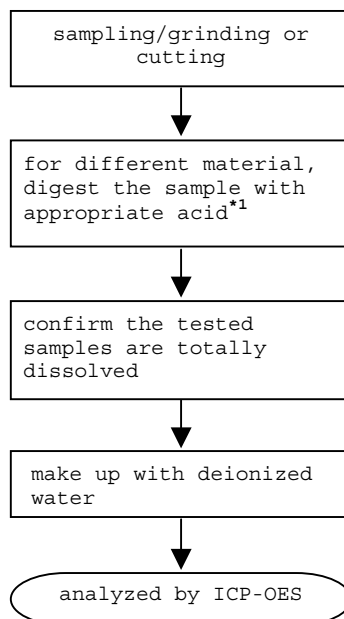
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Test Conducted

(IV) Measurement Flowchart:

Test For Heavy Metal (Cd/Pb/Hg) Contents

Reference Standard: IEC 62321 edition 1.0:2008



Remarks:

*1: List Of Appropriate Acid:

Material	Acid Added For Digestion
Polymers	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
Metals	HNO ₃ , HCl, HF
Electronics	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

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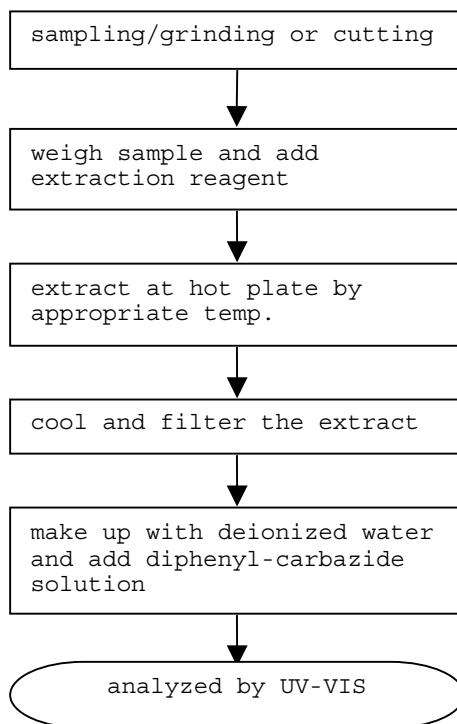
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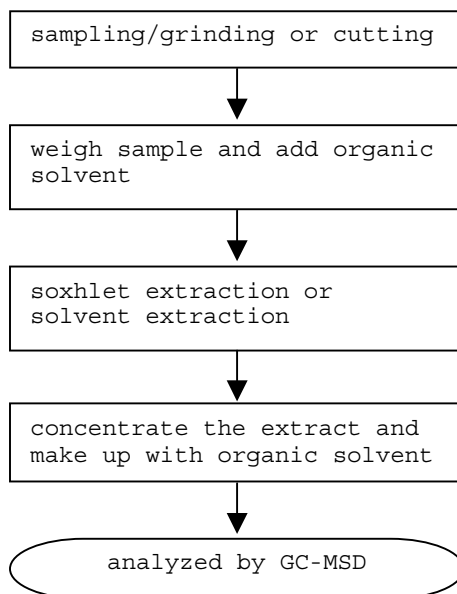
Test Conducted
(IV) Measurement Flowchart:

Test For Chromium (VI) Content
Reference Standard: USEPA 3060A/7196A



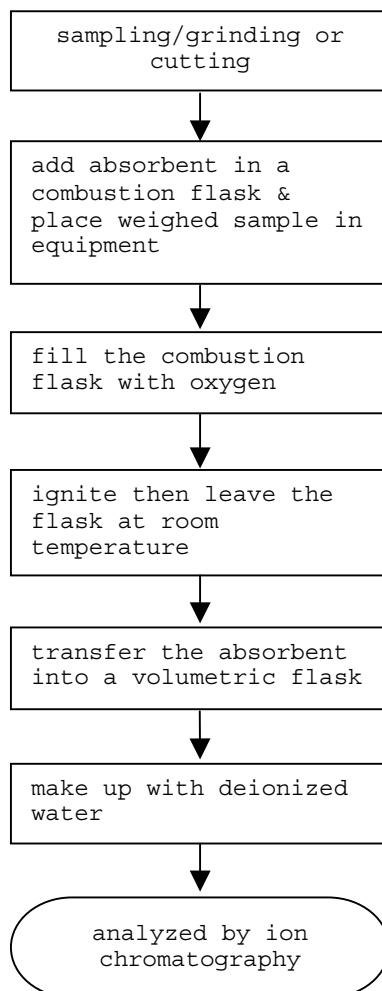
Test Conducted
(IV) Measurement Flowchart:

Test For PBBS/PBDES Contents
Reference Standard: IEC 62321 edition 1.0:2008



Test Conducted
(IV) Measurement Flowchart:

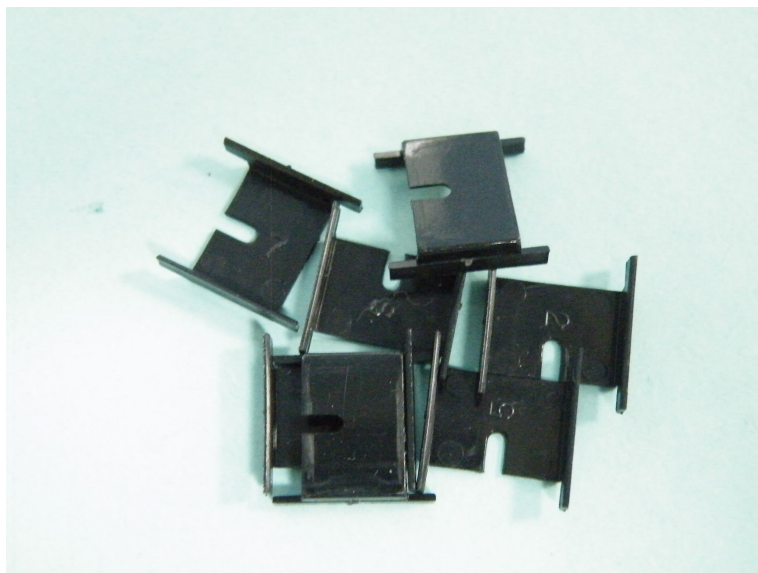
Test For Halogen Content
Reference Standard: EN 14582



End Of Report

Test Conducted

Photo



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Test Report

No. : CE/2008/A3660 Date : 2008/10/21

Page : 1 of 5

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 : INSERT
Style/Item No. : 891-018-003
Sample Receiving Date : 2008/10/16
Testing Period : 2008/10/16 TO 2008/10/21

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

Test Method : With reference to IEC 62321/2nd CDV (111/95/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 metallic samples by Spot test / boiling water extraction Method.

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


Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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Test Report

No. : CE/2008/A3660 Date : 2008/10/21

Page : 2 of 5

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



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

Test Item (s):	Method (Refer to)	Result		MDL
		No.1	No.2	
Cadmium (Cd)	(1)	n.d.	n.d.	2
Lead (Pb)	(2)	n.d.	18	2
Mercury (Hg)	(3)	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	Negative	See Note 4

TEST PART DESCRIPTION:

NO.1 : PLATING LAYER OF SILVER COLORED METAL INSERT

NO.2 : BASE MATERIAL OF SILVER COLORED METAL INSERT

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. 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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Test Report

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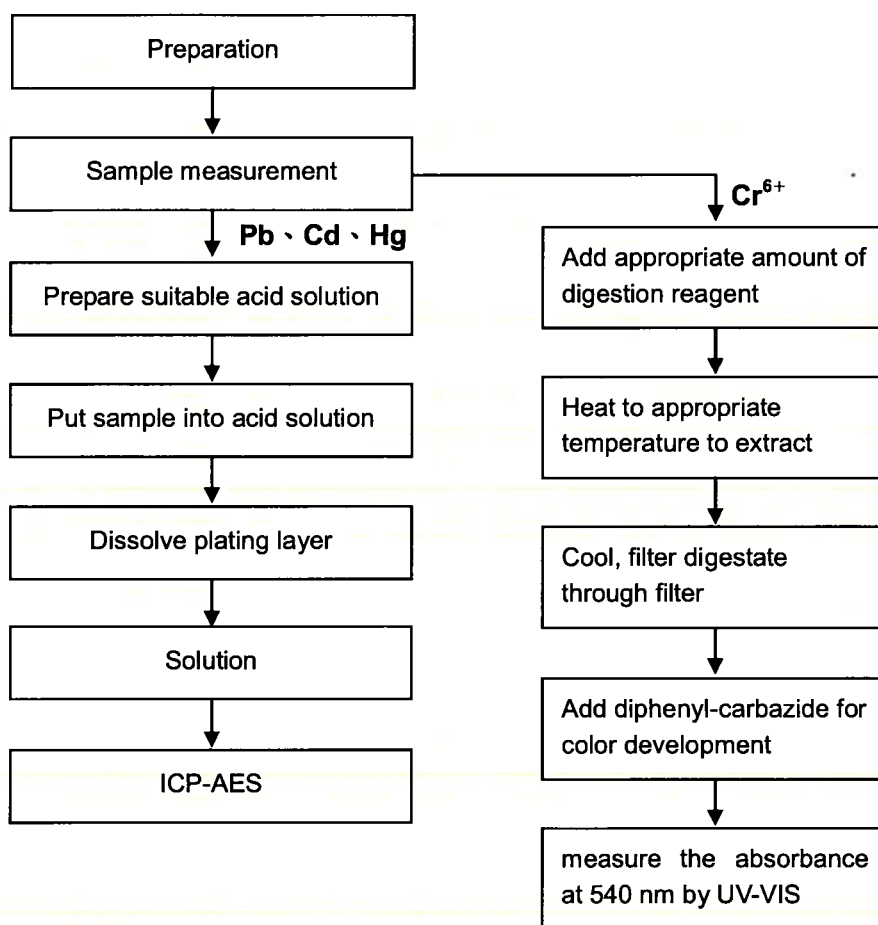
Page : 3 of 5

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



- NO.1
- 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

Flow Chart of Stripping method for metal analysis



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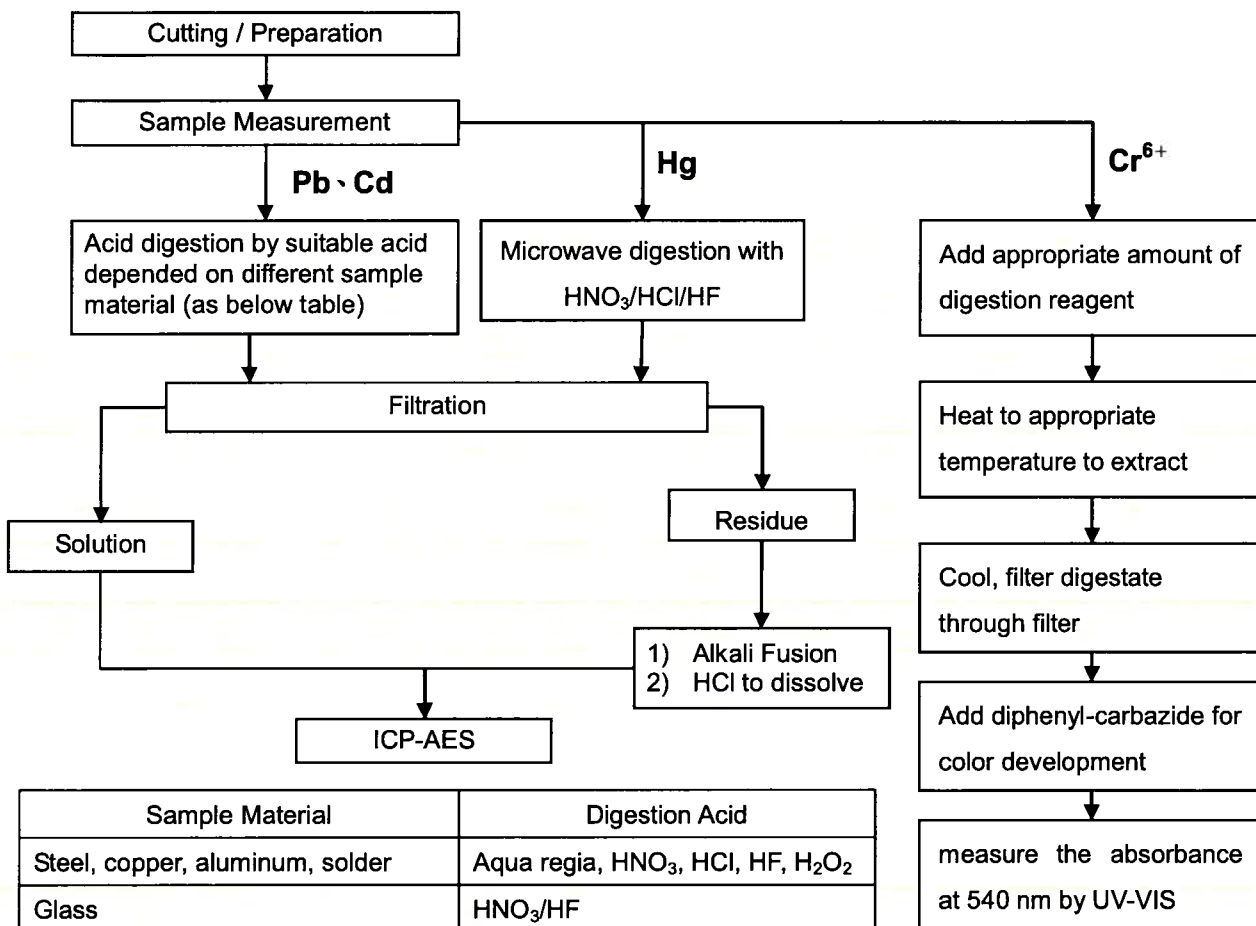
Page : 4 of 5

LITTELFUSE INC.

800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016



- NO.2
- 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



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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Test Report

No. : CE/2008/A3660 Date : 2008/10/21

Page : 5 of 5

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** End of Report **

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