ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: 2AG, 3AG Shock Safe Holder (International)

Product #: 345xxx Series

Issue Date: July 7, 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: Jenny Sabinglasan

<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 identifed 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	882-426	Back Terminal	3-25
2	883-048	Clip	3-25
3	912-296	Spring	3-25
4	070126	Wire	3-25
5	875-524	Back Terminal	3-25
6	875-521	Back Terminal	3-25
7	891-023	Insert	3-25
8	057256	Knob	3-25
9	057838	Knob	3-25
10	3453RF1-1 (057259)	Body/ Back Cap/ Knob	3-25
11	057277	Body	3-25
12	875-522	Back Terminal	26-31
13	875-525	Side Terminal	32-36
14	875-526	Side Terminal	37-42
15	057269	Cover	43-50

Report No.: MX10-0928-Serie 345
Date : 2010-05-31

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

Item No.

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.
22) P/N: 057256 Serie: 345 Int.
23) P/N: 057838 Serie: 345 Int.
26) P/N: 3453RF1-1 Serie: 345 Int.
27) P/N: 057277 Serie: 345 Int.
30) P/N: 901-134 Serie: 345

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

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TEST CONDUCTED

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

	Testing item	Conclusion	Failed component	Failed result
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	---	---
22	P/N: 057256 Serie: 345 Int.	Pass See Result summary	---	---
23	P/N: 057838 Serie: 345 Int.	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	---	---
30	P/N: 901-134 Serie: 345	Pass See Result summary	---	---

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TEST CONDUCTED

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

6) P/N: 883-050 Serie: 345 Int.
7) P/N: 882-426 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(6)	(7)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	13,86	29,46	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

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

8) P/N: 883-048 Serie: 345 Int.
9) P/N: 883-055 Serie: 345 Int.
10) P/N: 912-296 Serie: 345 Int.

EST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(8)	(9)	(10)	
Cadmium (Cd) content	ND	ND	39,706	0,01% (100 ppm)
Lead (Pb) content	14,91	14,09	23,431	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)

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

11) P/N: 070126 Serie: 345 Int.
12) P/N: 912-297 Serie: 345 Int.
13) P/N: 875-524 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(11)	(12)	(13)	
Cadmium (Cd) content	41,600	39,210	ND	0,01% (100 ppm)
Lead (Pb) content	25,500	22,193	36,80	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 :

14) P/N: 875-521 Serie: 345 Int.
15) P/N: 891-023 Serie: 345 Int.

EST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(14)	(15)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	50,11	27,73	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	0,1% (1000 ppm)

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

22) P/N: 057256 Serie: 345 Int.
23) P/N: 057838 Serie: 345 Int

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(22)	(23)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	---

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

26) P/N: 3453RF1-1 Serie: 345 Int.
27) P/N: 057277 Serie: 345 Int.
30) P/N: 901-134 Serie: 345

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(26)	(27)	(30)	
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	---

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ppm = parts per million based on dry weight of sample.
$\mu g/cm^2$ = microgram per square centimeter.
mg/kg WITH $50cm^2$ = 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 Ω.

Prepared and checked by :
For Intertek

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 928-6 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-7 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-8 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-9 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-10 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-11 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-12 WERE TESTED TOGETHER.

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REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-13 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-14 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-15 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-22 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-23 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-26 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-27 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-30 WERE TESTED TOGETHER.

Test method :

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	BEQ160p5b	2010-05-01,03	MELA,JLHS	2,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004440-PCL	2010-04-28 2010-05-22	CONT	50*
	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004440-PCL	2010-04-28 2010-05-22	CONT	50*

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No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
6	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,000
7	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,902
8	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,102
9	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,000
10	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	9,800
11	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	10,000
12	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	8,77
13	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,808
14	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,717
15	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,464
22	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
23	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	5,0
26	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
27	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
30	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
6	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
7	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,961
8	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,041
9	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
10	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,961
11	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
12	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,754
13	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,923
14	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,887
15	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,786
22	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
23	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	2,000
26	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
27	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
30	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961

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No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
6	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
7	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,082
8	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
9	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0758
10	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
11	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
12	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
13	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0806
14	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
15	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0758
22	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0746
23	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0806
26	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0781
27	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0833
30	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0833

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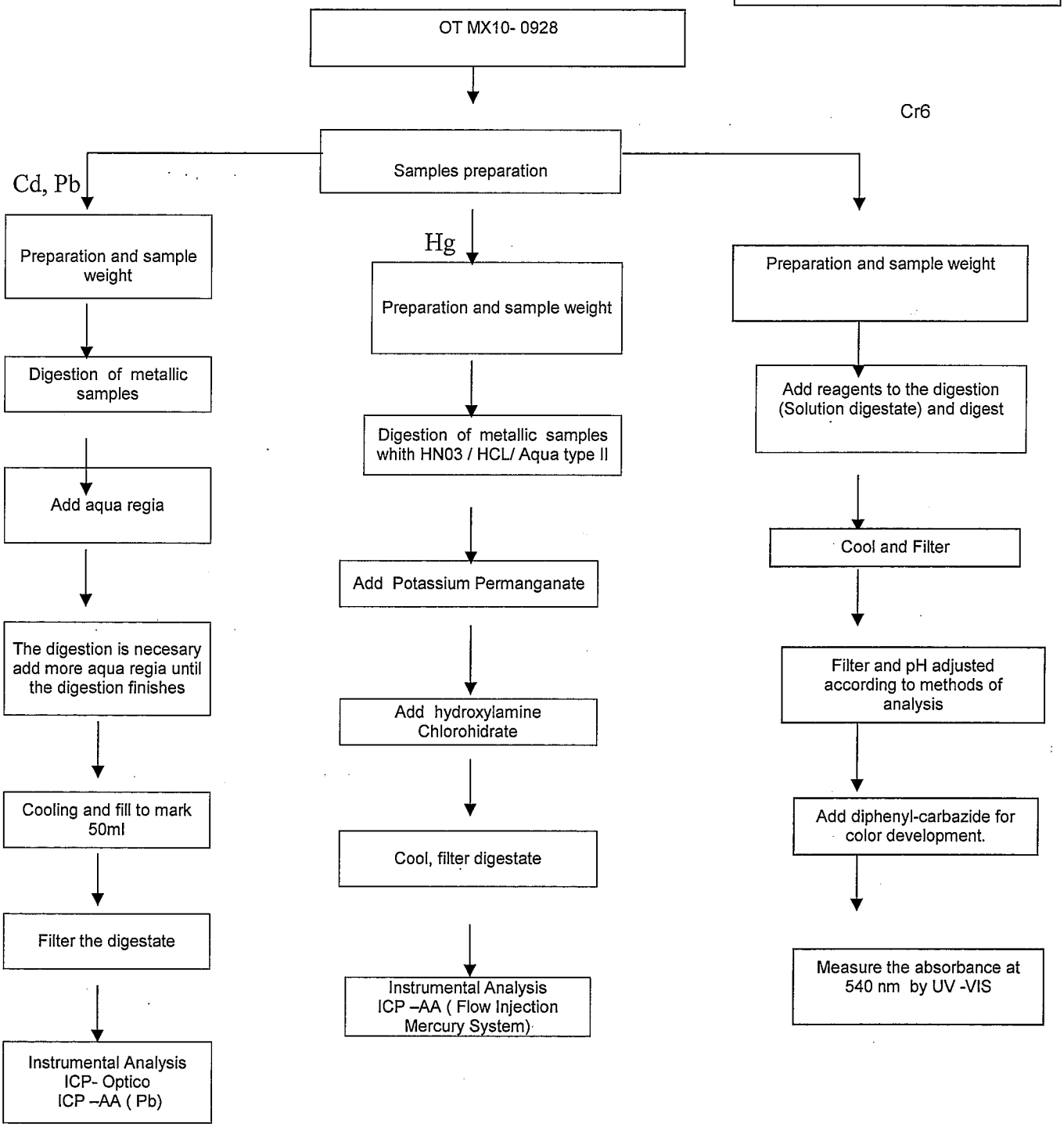
www.intertek.com

Report No.: MX10-0928
Date: 2010-05-31

Metallic samples
Flow chart for samples: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15



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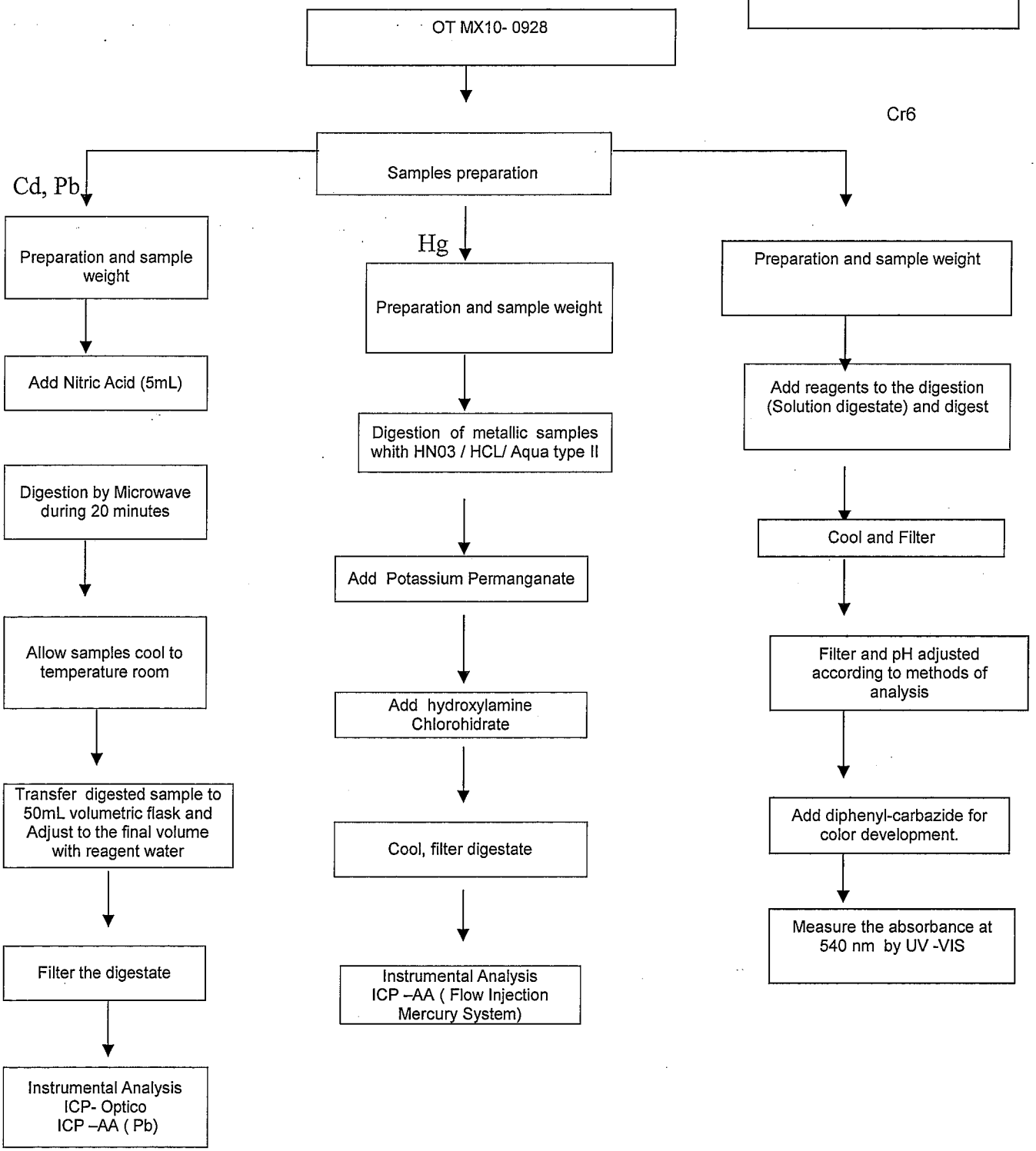
1ª. Emisión Junio 2005, 1° Revisión Junio 26, 2009. ILTA/003/GENS-F8

Report No.: MX10-0928
Date: 2010-05-31

Plastic samples
Flow chart for samples: 22, 23, 26, 27, 30



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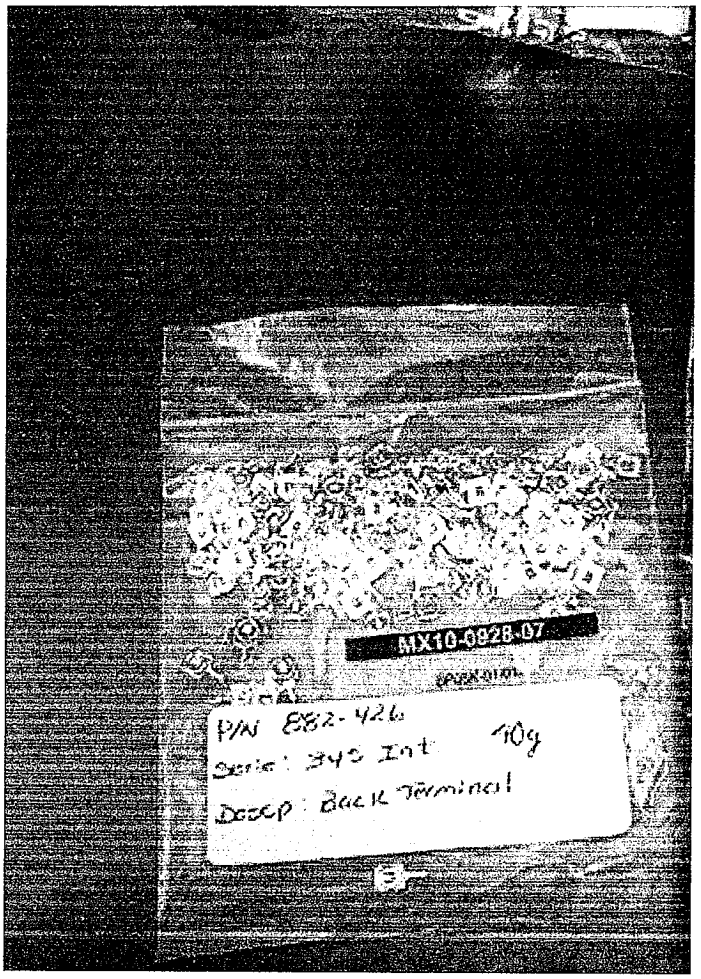
MX10-0928-07



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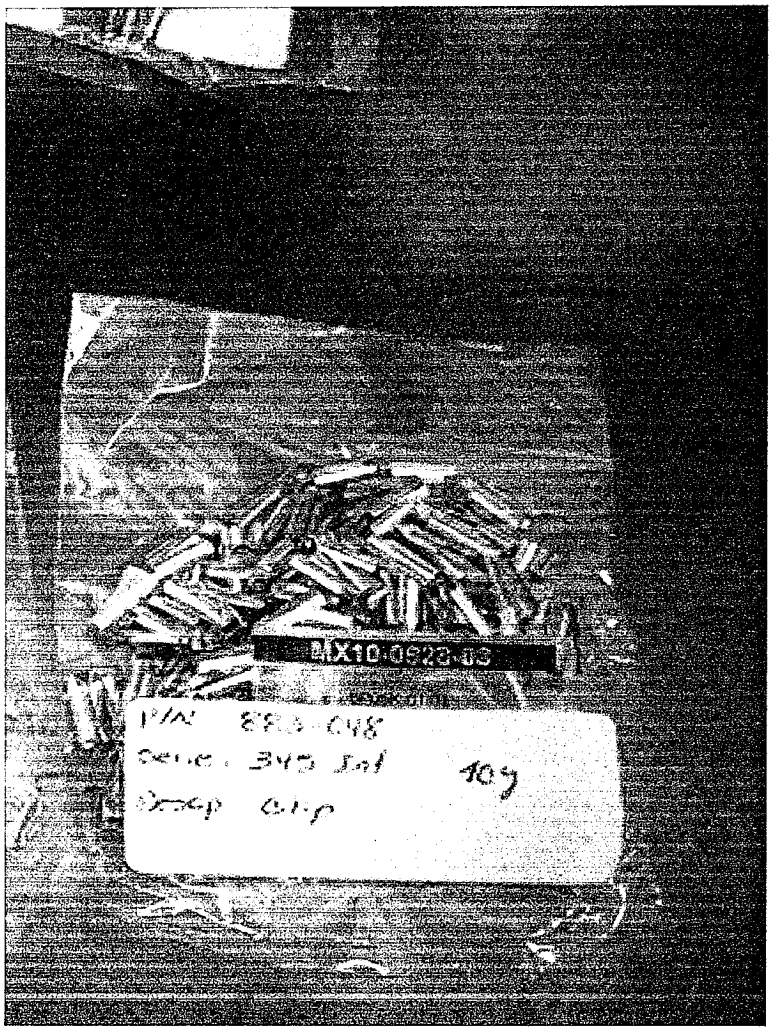
MX10-0928-08



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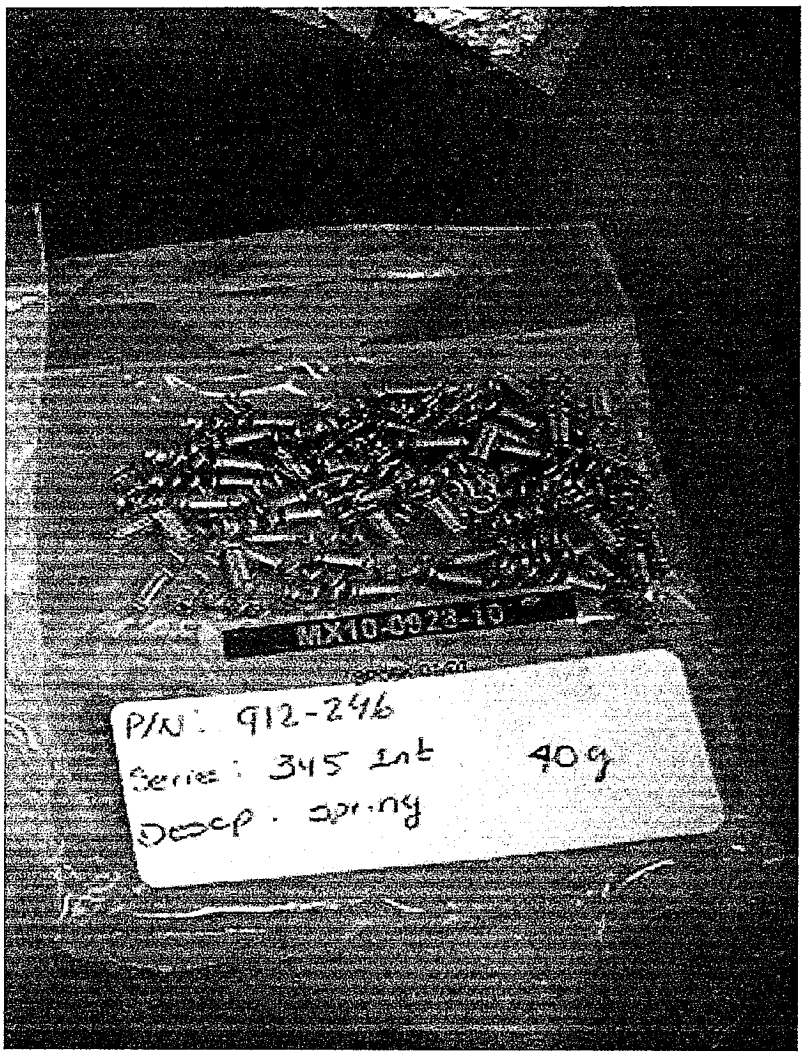

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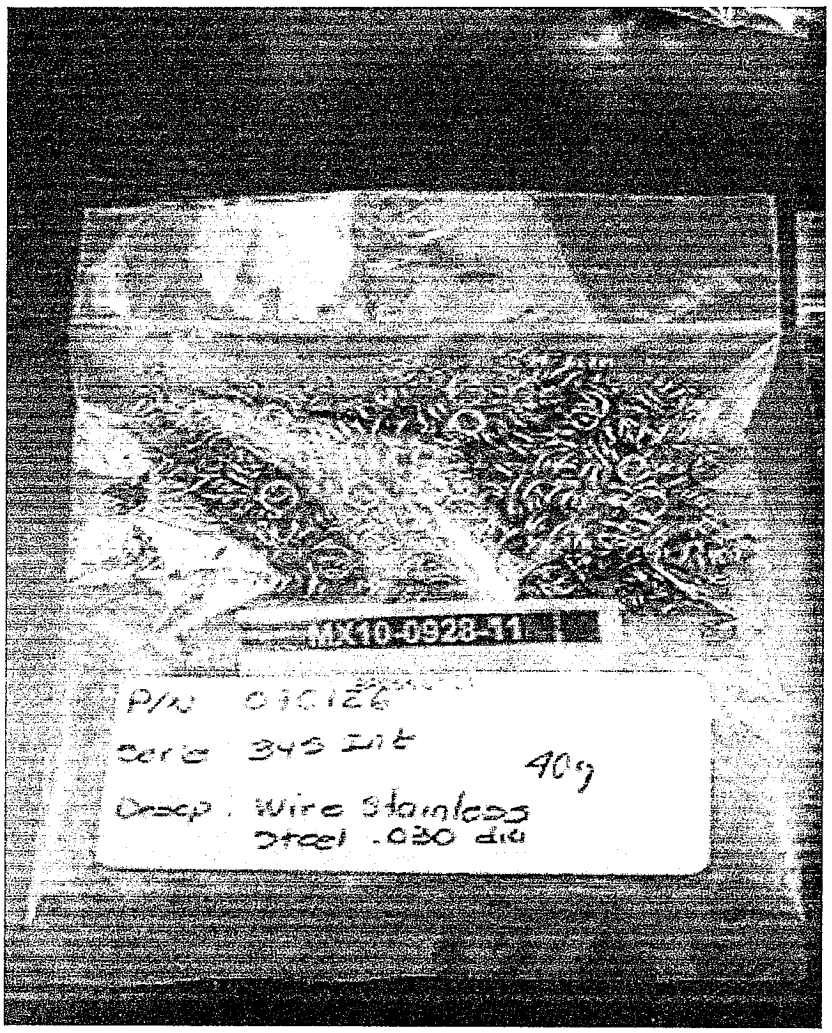
MX10-0928-11



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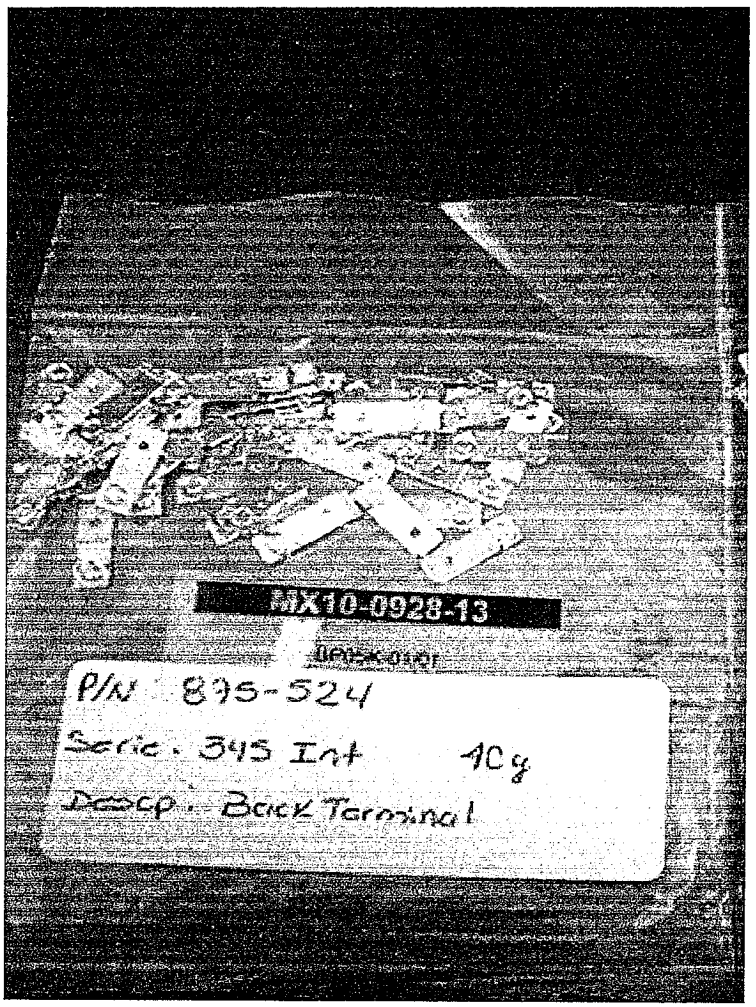
MX10-0928-13



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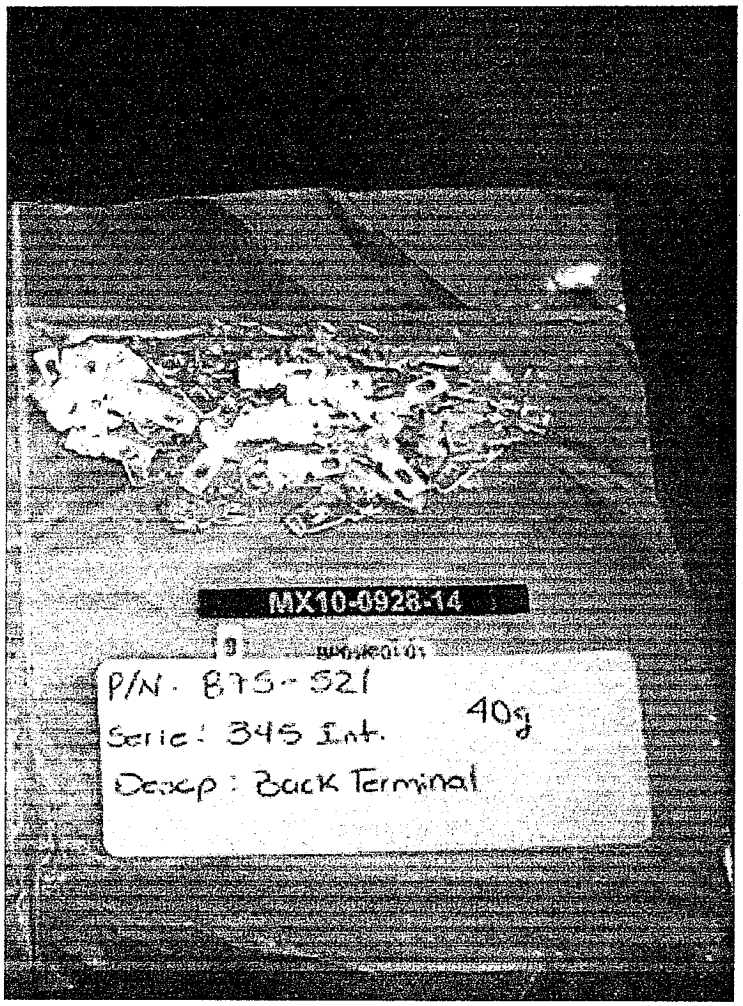
MX10-0928-14



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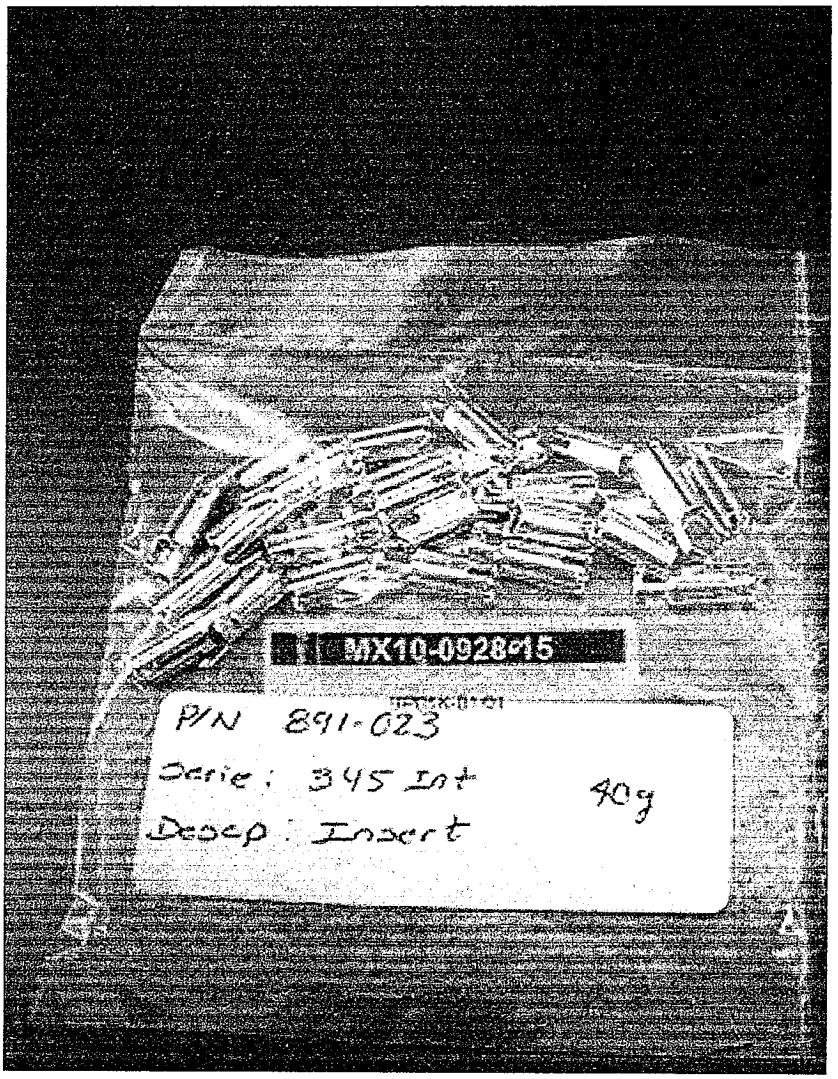
MX10-0928-15



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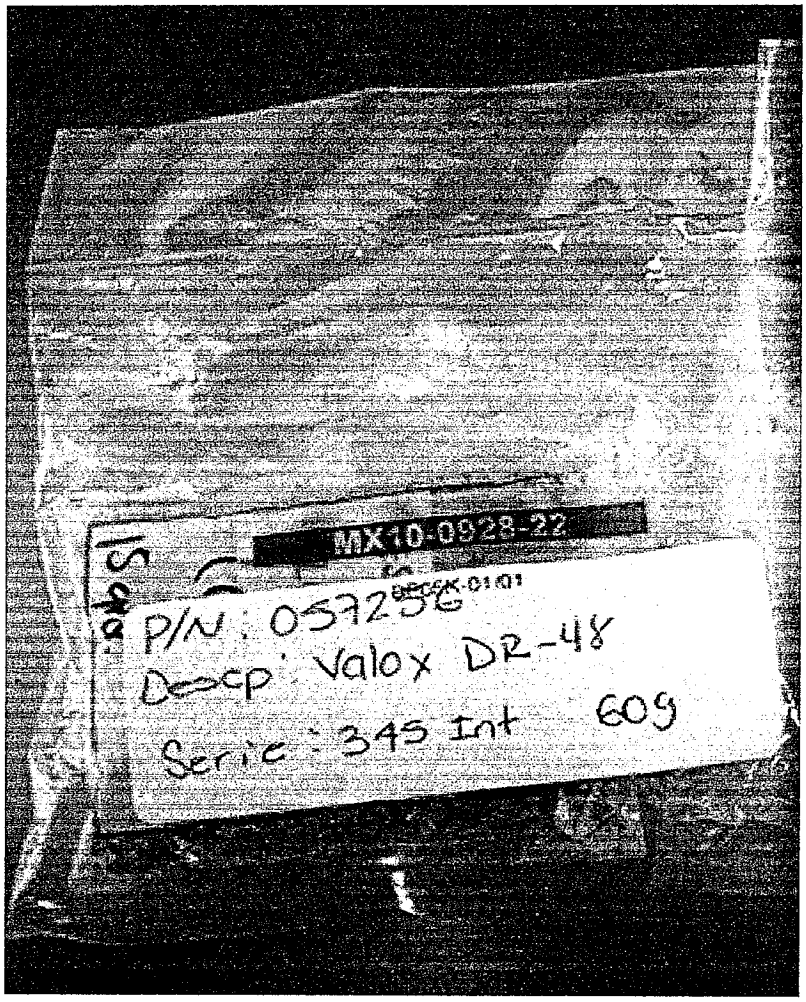
MX10-0928-22



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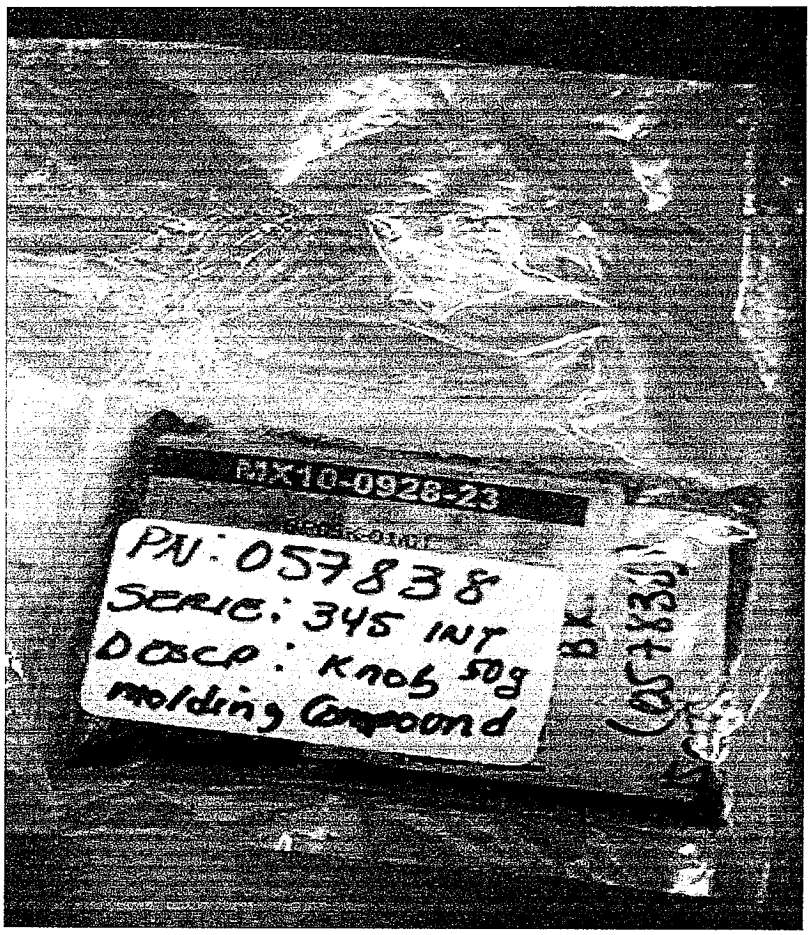
MX10-0928-23



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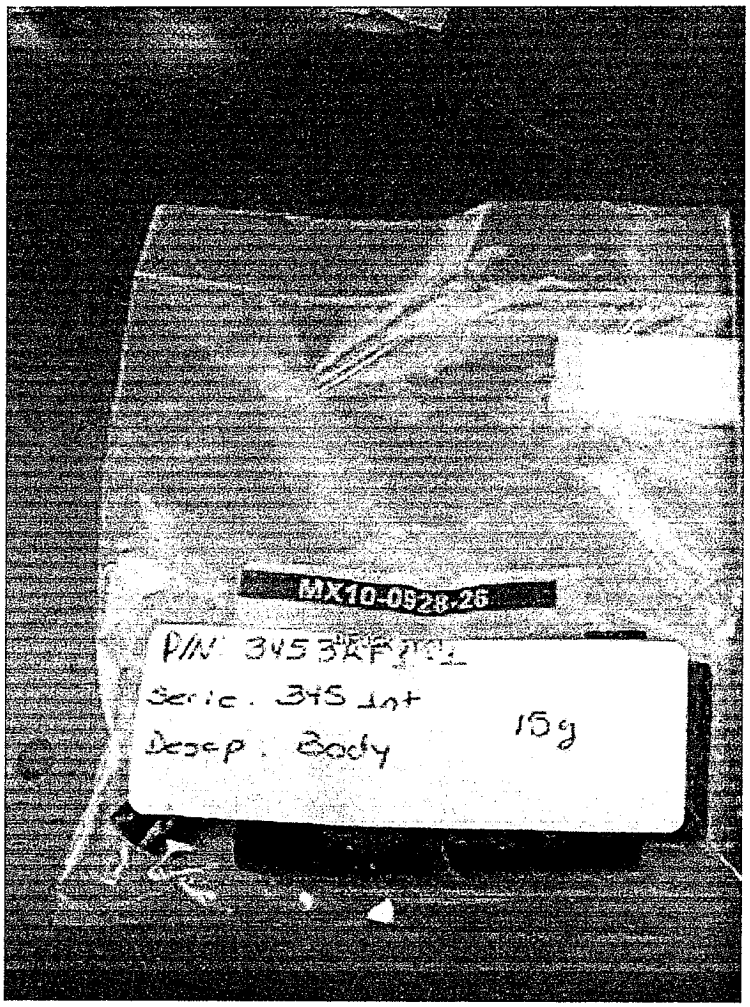
MX10-0928-26



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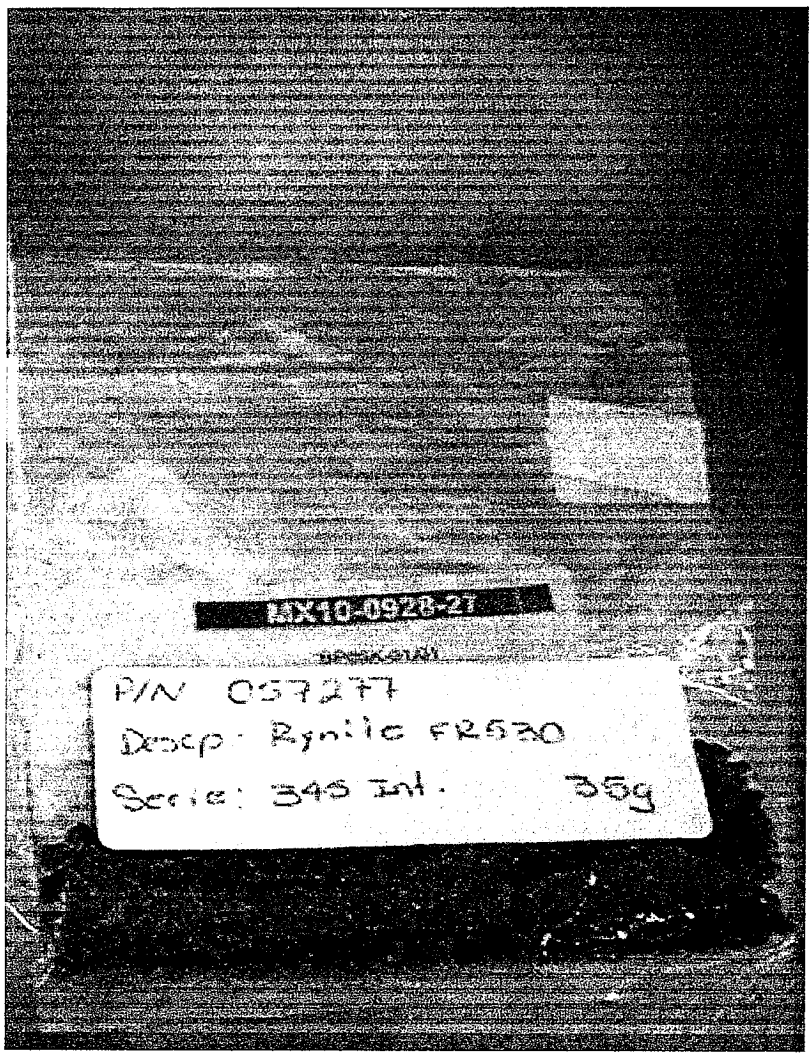
MX10-0928-27



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Report No.: MX10-1165-Serie 345
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

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www.intertek.com

Report No.: MX10-1165-Serie 345
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	NP
Item No.	1) Serie 345 Int. P/N: 875-522
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

****

TEST CONDUCTED

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

****

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
1	Serie 345 Int. P/N: 875-522	Pass See Result summary	---	---

****

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Report No.: MX10-1165-Serie 345
Date : 2010-06-18

TEST CONDUCTED

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

1) Serie 345 Int. P/N: 875-522

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)	Limit
	(1)	
Cadmium (Cd) content	ND	0,01% (100 ppm)
Lead (Pb) content	51,25	0,1% (1000 ppm)
Mercury (Hg) content	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	0,1% (1000 ppm)

ppm = parts per million based on dry weight of sample.
$\mu g/cm^2$ = microgram per square centimeter.
mg/kg WITH $50cm^2$ = 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 Ω.

Prepared and checked by :
For Intertek

Irma López M.
Coord-de Área

Laboratory Manager

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

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Report No.: MX10-1165-Serie 345
Date : 2010-06-18

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 1165-1 WERE TESTED TOGETHER.

Test method :

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2009-3p99,100	2010-06-05	MTCM	2,0

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

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 7130	MET2010-8p26	2010-06-03	MARY	2,5

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

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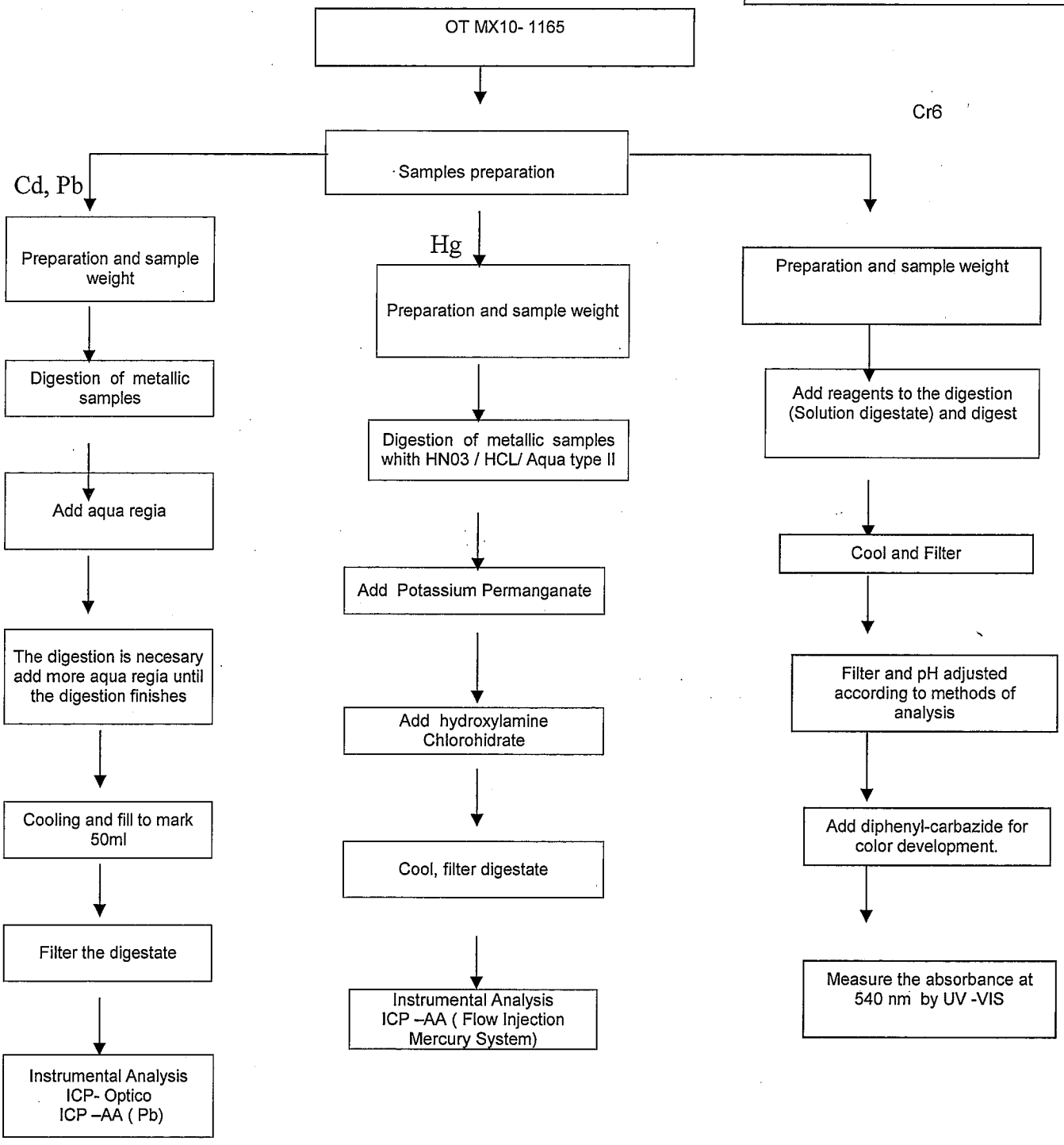
Report No.: MX10-1165
Date: 2010-06-18

Metallic samples
Flow chart for samples: 1



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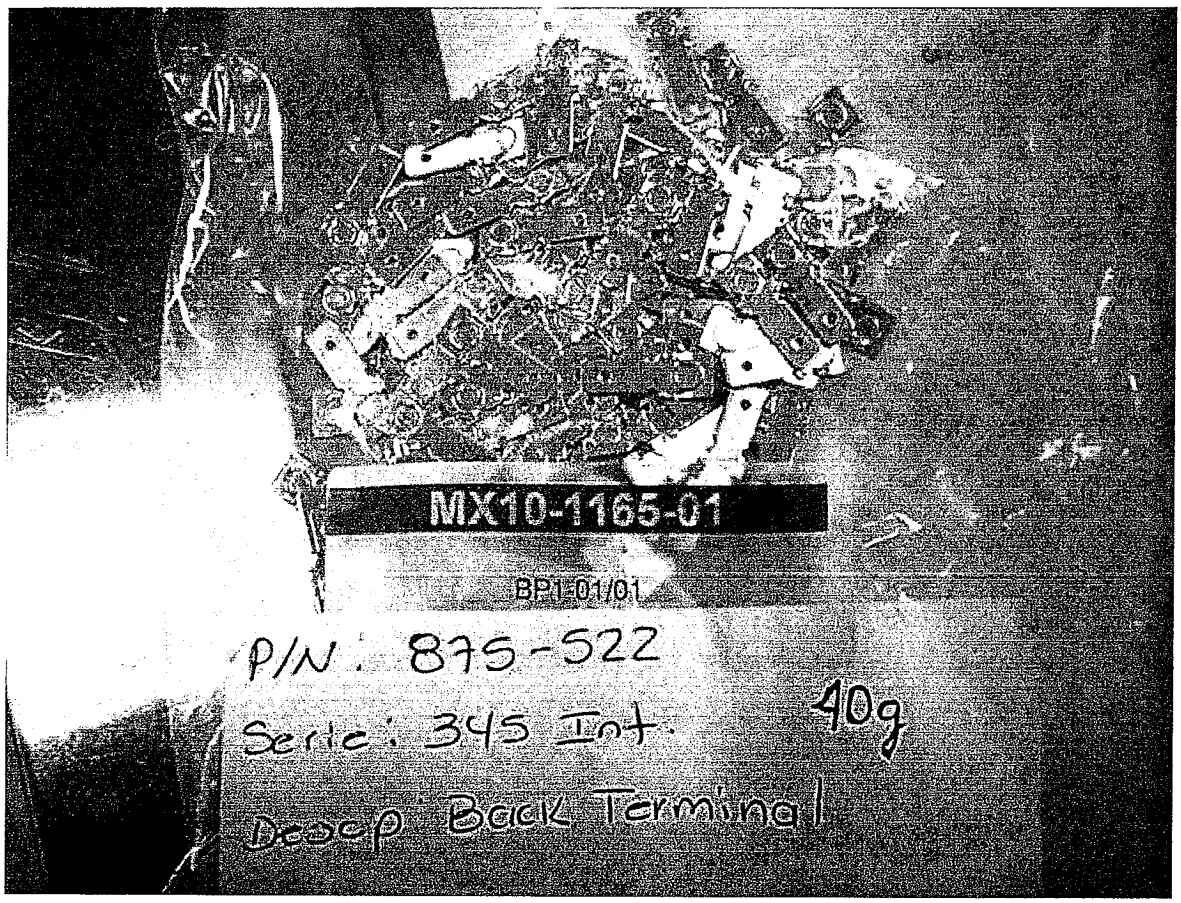
MX10-1165-01


MX10-1165-01
BP1-01/01
P/N: 875-522
Serie: 345 Int.
40g
Deseo Back Terminal

Test Report

No. : CE/2008/A5030 Date : 2008/10/27 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	:	SIDE TERMINAL
Style/Item No.	:	875-525
Sample Receiving Date	:	2008/10/22
Testing Period	:	2008/10/22 TO 2008/10/27

==========

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

Nicole Chien / Supervisor
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

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)	169	13	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 cm^2 sample surface area.

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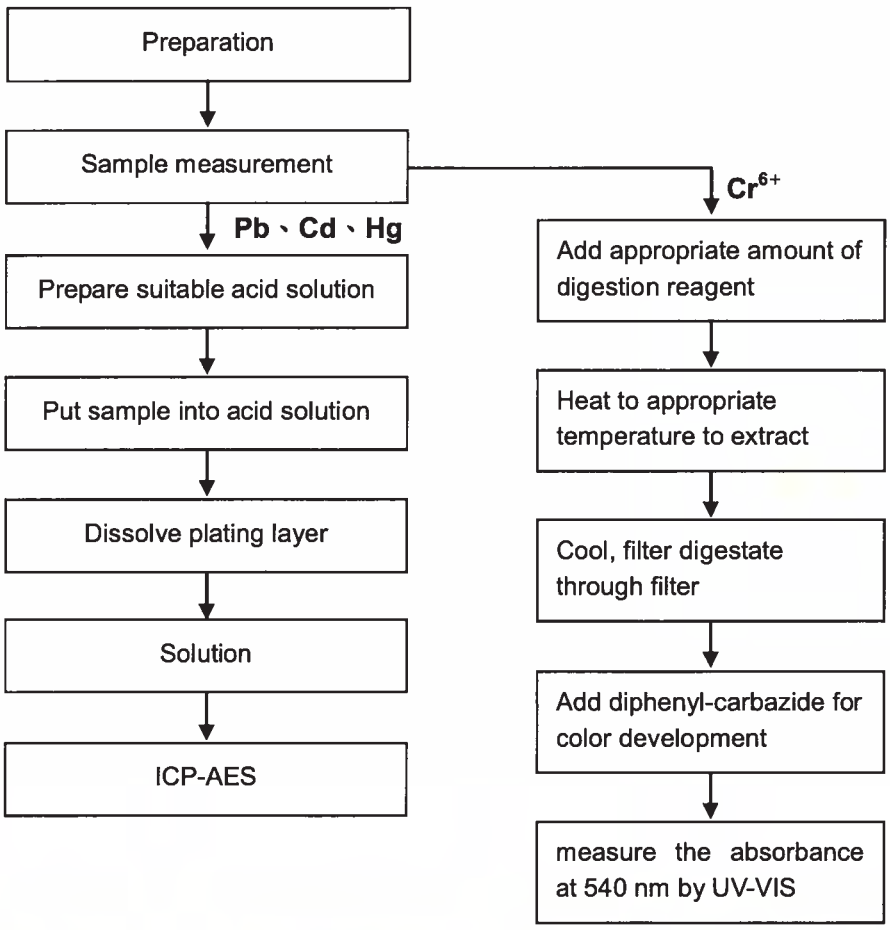
LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

NO.1

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. （Cr^{6+} 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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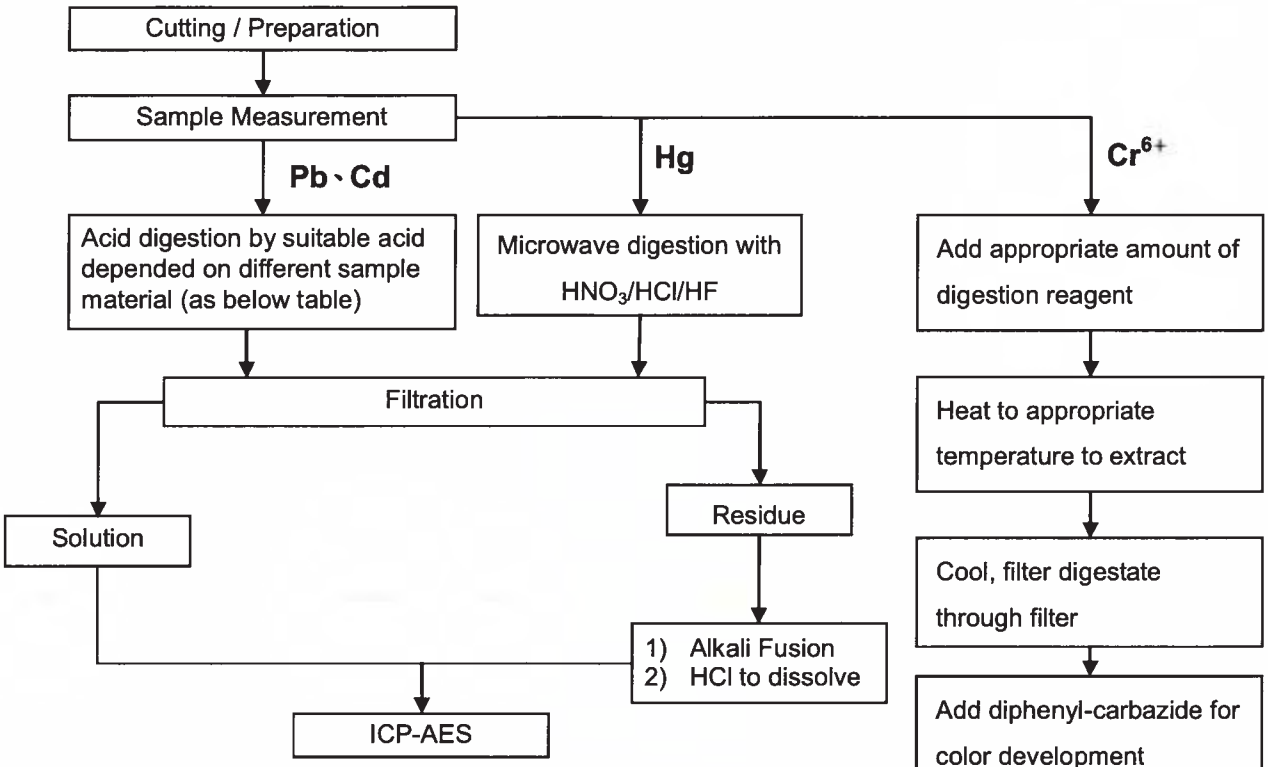
LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY, DES PLAINES, IL 60016

NO.2
1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} 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_2O_2
Glass	HNO_3/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO_3
Plastic	H_2SO_4, H_2O_2, HNO_3, HCl
Others	Any acid to total digestion

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

** End of Report **

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Test Report

Number : TWNC00108553
Page 1 Of 6

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

Date : FEB 27, 2009

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

Part Description	: Side Terminal
Part Number	: 875-526
Date Sample Received	: FEB 24, 2009
Date Test Started	: FEB 25, 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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Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Test Conducted

(Ⅰ) Test Result Summary :

Testing Item	Result (ppm)
	Silvery Metal
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	53
Mercury (Hg) content	ND
Chromium VI (Cr^{6+}) content	ND

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

Responsibility Of Chemist : Irene Chiou / Kevin Liu

Date Sample Received : FEB 24, 2009
Testing Period : FEB 25, 2009 TO FEB 26, 2009

(Ⅱ) RoHS Requirement:

Restricted Substances	Limits
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)

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

Test Conducted

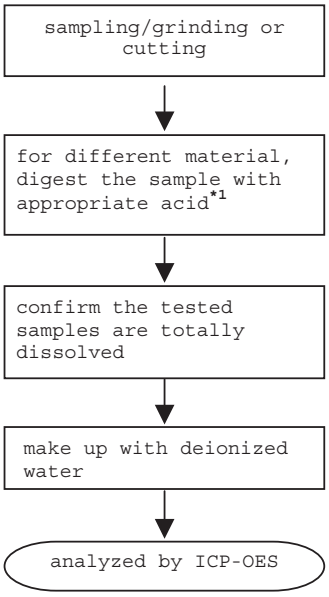
(Ⅲ) Test Method:

Testing Item	Testing Method	Reporting Limit
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

Remark: Reporting limit = Quantitation limit of analyte in sample

Test Conducted
(Ⅳ) Measurement Flowchart:

Test For Heavy Metal (Cd/Pb/Hg) Contents
Reference Standard: IEC 62321 edition 1.0:2008

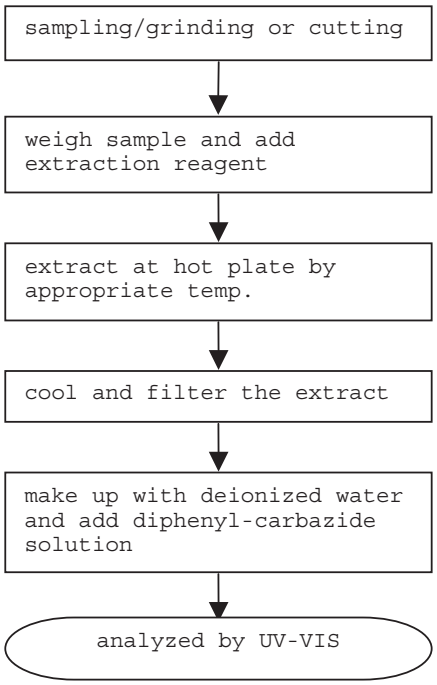


Remarks:
*1: List Of Appropriate Acid：

Material	Acid Added For Digestion
Polymers	HNO_3, HCl, HF, H_2O_2, H_3BO_3
Metals	HNO_3, HCl, HF
Electronics	HNO_3, HCl, H_2O_2, HBF_4

Test Conducted
(Ⅳ) Measurement Flowchart:

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



End Of Report

Test Conducted

Photo

Intertek Testing Services Taiwan Ltd.
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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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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

Test Conducted

(Ⅱ) RoHS Requirement:

Restricted Substances	Limits
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 Ehters (PBDEs)	0.1% (1000ppm)

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

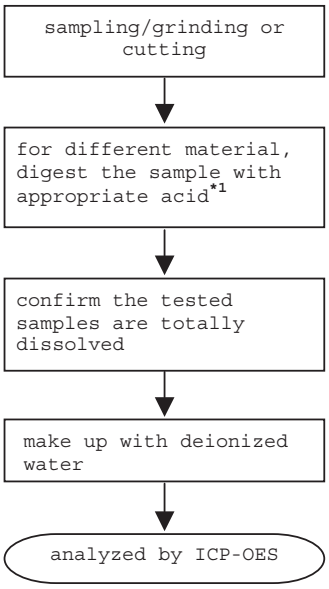
(Ⅲ) Test Method:

Testing Item	Testing Method	Reporting Limit
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

Test Conducted
(Ⅳ) Measurement Flowchart:

Test For Heavy Metal (Cd/Pb/Hg) Contents
Reference Standard: IEC 62321 edition 1.0:2008

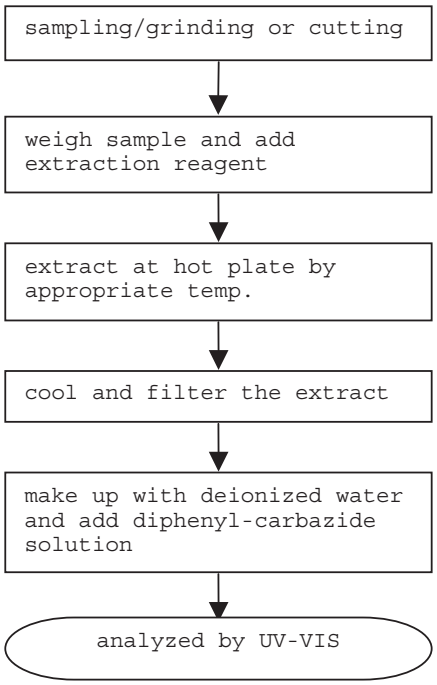


Remarks:
*1: List Of Appropriate Acid：

Material	Acid Added For Digestion
Polymers	HNO_3, HCl, HF, H_2O_2, H_3BO_3
Metals	HNO_3, HCl, HF
Electronics	HNO_3, HCl, H_2O_2, HBF_4

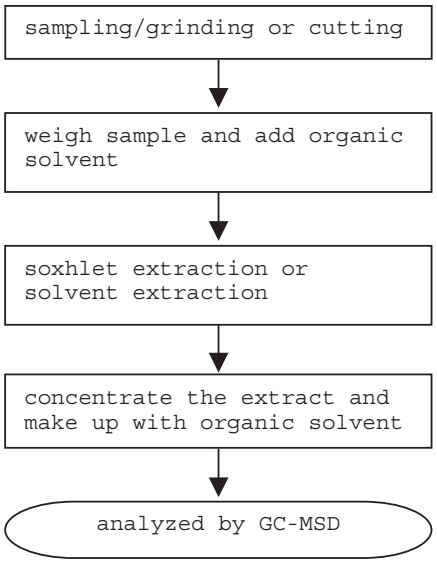
Test Conducted
(Ⅳ) Measurement Flowchart:

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



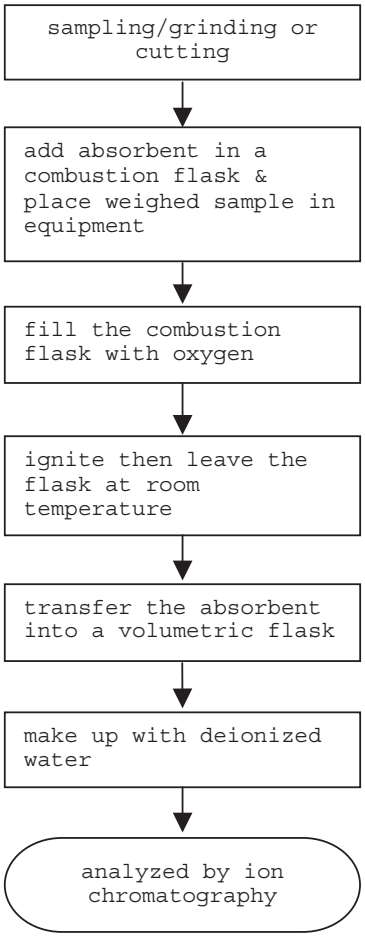
Test Conducted
(Ⅳ) Measurement Flowchart:

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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