ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: 2AG, 3AG Shock Safe Holder (3453xxxx, 3452xxxx)

Product #: 345 International Holders

Issue Date: February 3, 2012

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: KRISTEEN BACILA

<Global EHS Engineer>

(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	883-048	Contact Clip	3-17
2	875-525/ 875-526/ 875-528	Side Terminals	18-27
3	875-521	Back terminal	18-27
4	891-023	Knob Insert	18-27
5	883-055 (883-050)	Contact Clip	18-27
6	912-296/ 912-297	Compress Spring	28-35
7	070126	Wire	28-35
8	875-522	Back Terminal	36-43
9	875-524	Back Terminal	36-43
10	057259/ 057261/ 057256	Body/ Cap/ Knob Black Valox - RoHS	44-52
11	903-114	Nut	53-68
12	903-097	Nut	69-75

Report No.: MX11-0367
Date : 2011-03-22

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. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila

ATTENTION: Ing. Maria Valdez

000 01

Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo
C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
www.intertek.com

Report No.: MX11-0367
Date : 2011-03-22

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. Maria Valdez

SAMPLE DESCRIPTION

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

Sample Description	NP
Item No.	1) N/P 882-425 base y plateo 2) N/P 882-426 base y plateo 3) N/P 883-048 base y plateo 4) N/P 891-023 base y plateo 5) N/P 344006-4 base y plateo 6) N/P 915-010 base y plateo 7) N/P 905-010 8) N/P 912-072 9) N/P 912-296 10) N/P 070126
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2011-02-23
Testing period	2011-02-28 to 2011-03-03

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TEST CONDUCTED

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

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Report No.: MX11-0367
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CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1 (a)	N/P 882-425 plateo	Pass See Result summary	---	---
1 (b)	N/P 882-425 base	Pass See Result summary	---	---
2(a)	N/P 882-426 plateo	Pass See Result summary	---	---
2(b)	N/P 882-426 base	Pass See Result summary	---	---
3(a)	N/P 883-048 plateo	Pass See Result summary	---	---
3(b)	N/P 883-048 base	Pass See Result summary	---	---
4(a)	N/P 891-023 plateo	Pass See Result summary	---	---
4(b)	N/P 891-023 base	Pass See Result summary	---	---
5(a)	N/P 344006-4 plateo	Pass See Result summary	---	---
5(b)	N/P 344006-4 base	Pass See Result summary	---	---
6(a)	N/P 915-010 plateo	Pass See Result summary	---	---
6(b)	N/P 915-010 base	Pass See Result summary	---	---
7	N/P 905-010	Pass See Result summary	---	---
8	N/P 912-072	Pass See Result summary	---	---
9	N/P 912-296	Pass See Result summary	---	---
10	N/P 070126	Pass See Result summary	---	---

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TEST CONDUCTED

Samples:

1) N/P 882-425 base y plateo
2) N/P 882-426 base y plateo

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	1 (a) covering	1 (b) base	2 (a) covering	2 (b) base	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	219,5	11,73	ND	23,91	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

Samples:

3) N/P 883-048 base y plateo
4) N/P 891-023 base y plateo

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	3 (a) covering	3 (b) base	4 (a) covering	4 (b) base	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	ND	13,67	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

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TEST CONDUCTED

Samples:

5) N/P 344006-4 base y plateo
6) N/P 915-010 base y plateo

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	5 (a) covering	5 (b) base	6 (a) covering	6 (b) base	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	7,885	331,8	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

Samples:

7) N/P 905-010
8) N/P 912-072

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(7)	(8)	
Cadmium (Cd) content	55,93	36,54	0,01% (100 ppm)
Lead (Pb) content	24,52	32,77	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	0,1% (1000 ppm)

C00005

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TEST CONDUCTED

Samples:

9) N/P 912-296
10) N/P 070126

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(9)	(10)	
Cadmium (Cd) content	35,38	34,25	0,01% (100 ppm)
Lead (Pb) content	32,12	29,92	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	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 quantification limit.
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 (,).

C30006

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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 MX11-0367-01 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-02 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-03 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-04 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-05 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-06 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-07 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-08 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-09 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0367-10 WERE TESTED TOGETHER.

CJ0007

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Report No.: MX11-0367
Date : 2011-03-22

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-10	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2010-45p17	2011-03-03	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
1 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
2 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
2 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
3 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
3 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
4 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
4 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
5 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
5 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
6 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	250,0
6 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	DCL	20,0
7	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	DCL	5,0
8	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	DCL	20,0
9	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	DCL	20,0
10	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	DCL	20,0

C30008

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Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
1 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
2 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
2 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
3 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
3 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
4 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
4 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
5 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
5 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
6 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	100,0
6 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
7	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
8	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
9	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
10	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
1 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
2 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
2 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
3 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
3 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
4 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	416,6
4 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
5 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
5 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
6 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
6 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
7	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
8	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
9	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
10	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25

CJ0009

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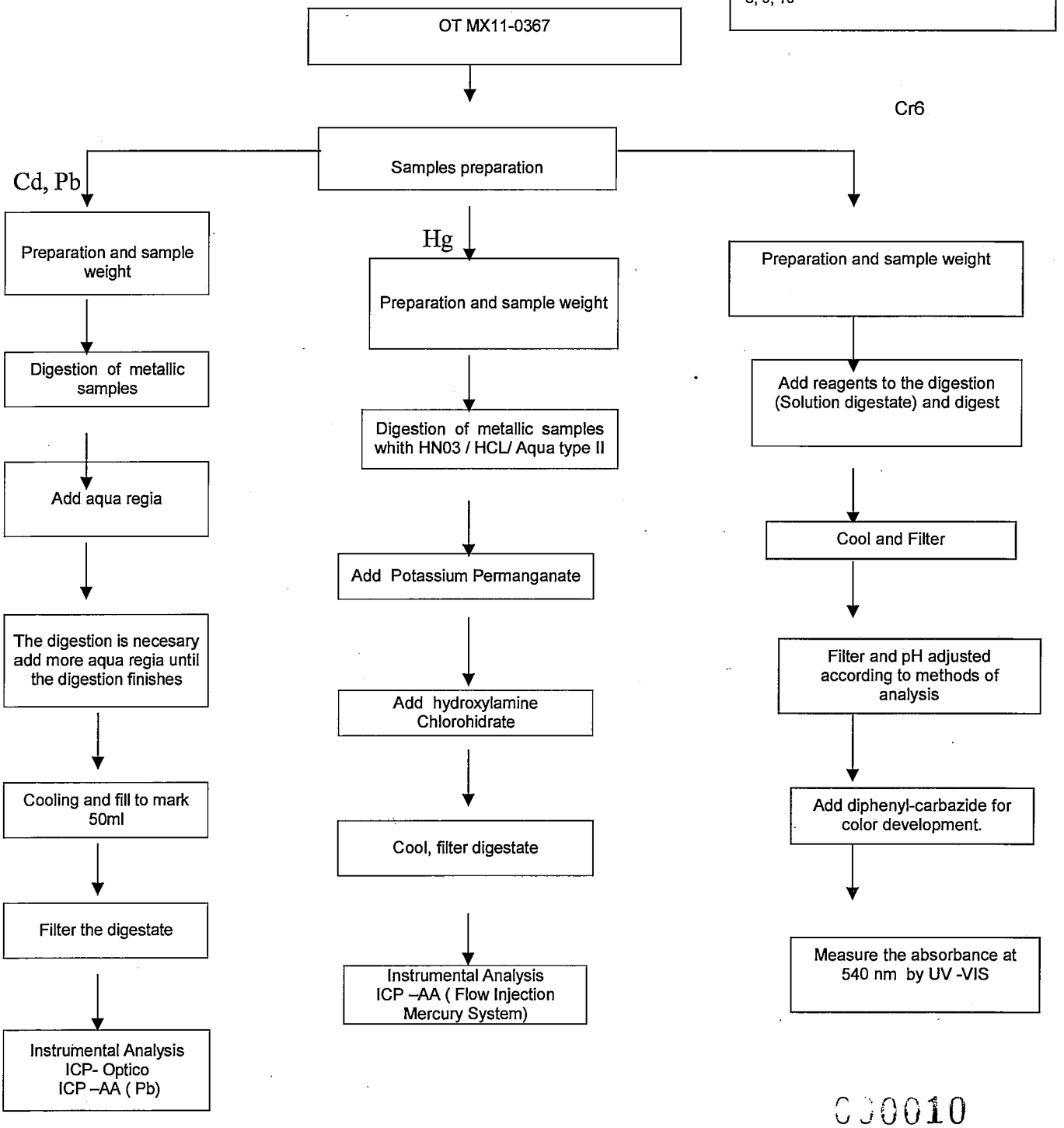
Metallic samples
Flow chart for samples: 1(a), 1(b), 2(a), 2(b), 3(a), 3(b), 4(a), 4(b), 5(a), 5(b), 6(a), 6(b), 7, 8, 9, 10



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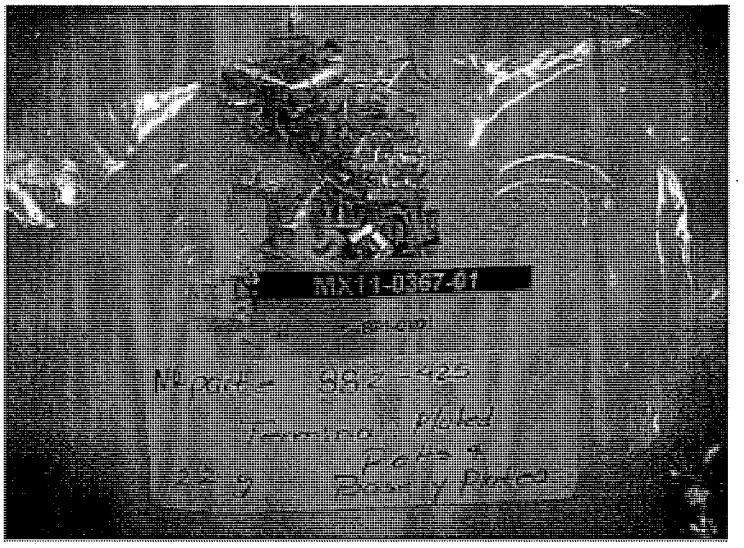

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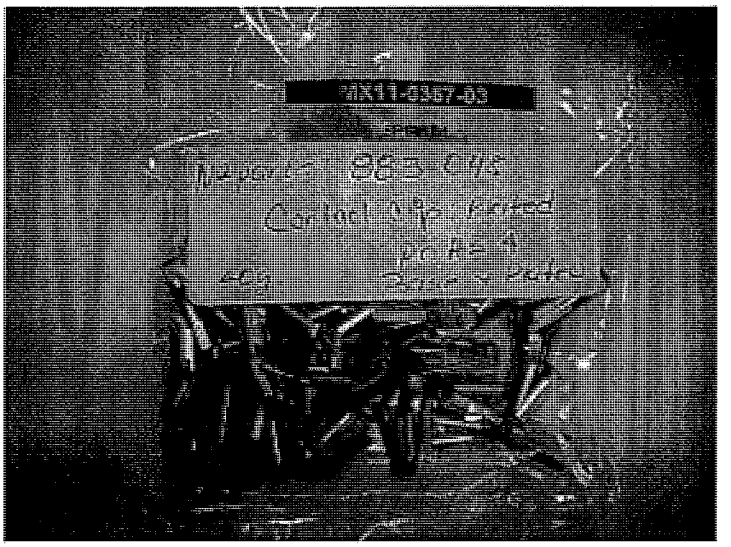

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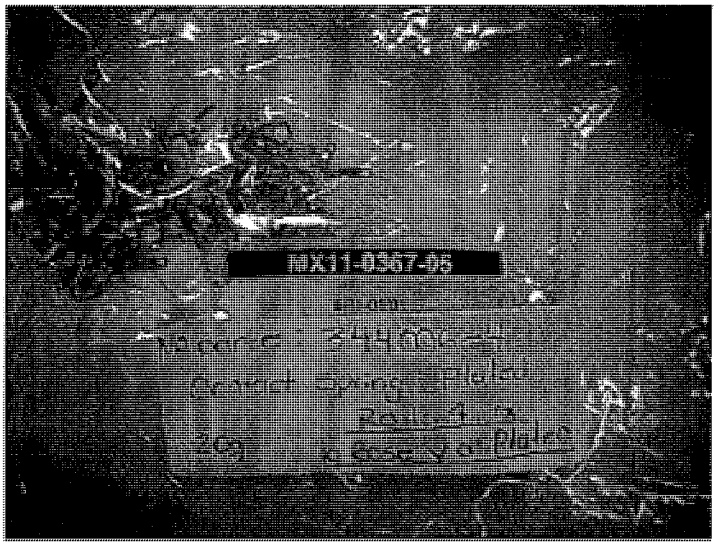

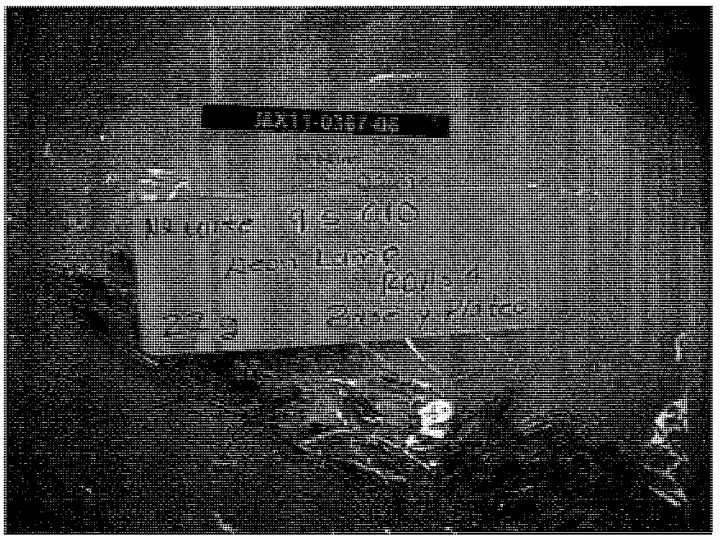

0J0013

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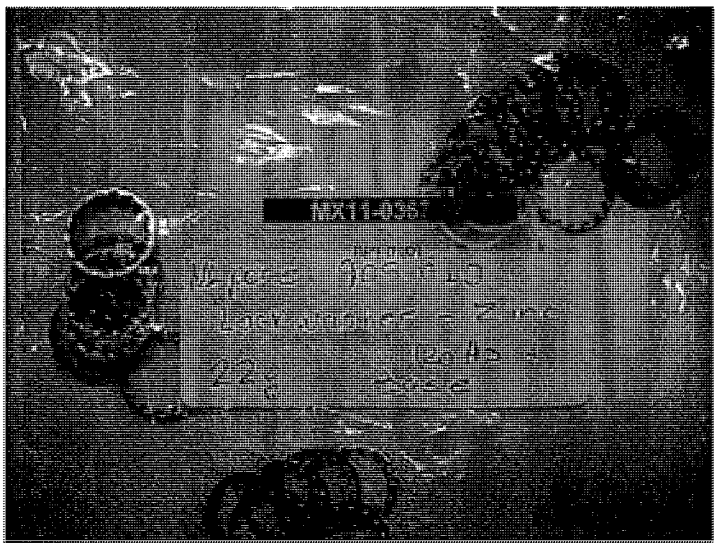

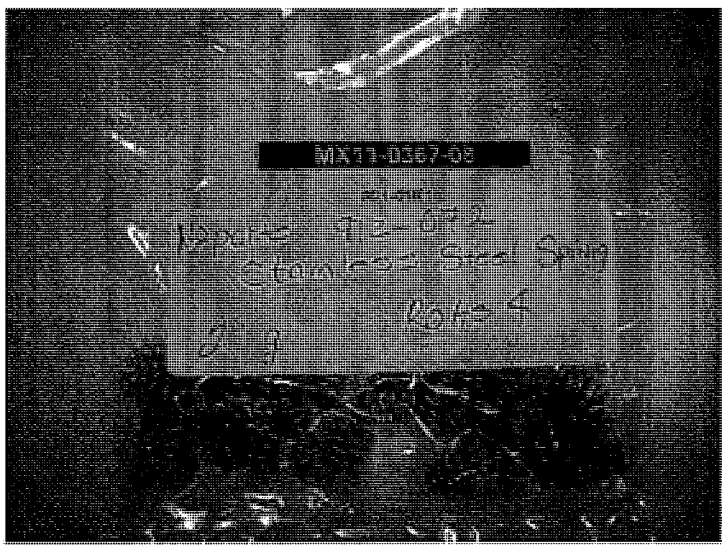

CJ0014

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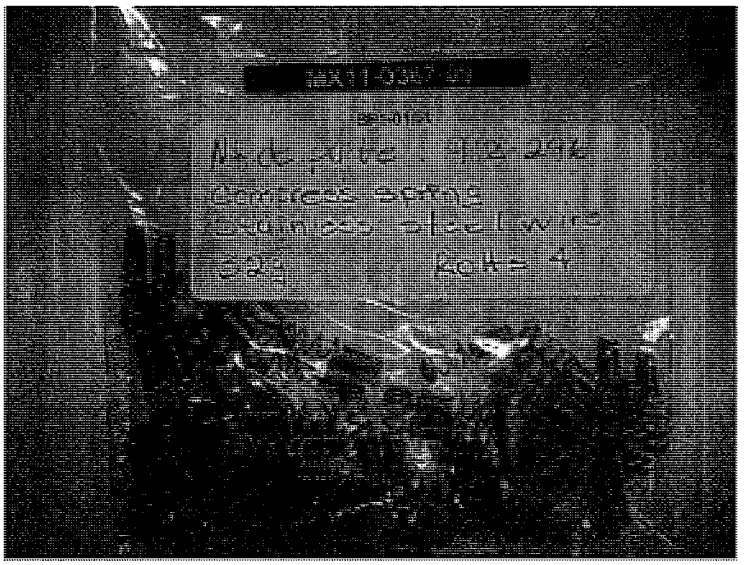

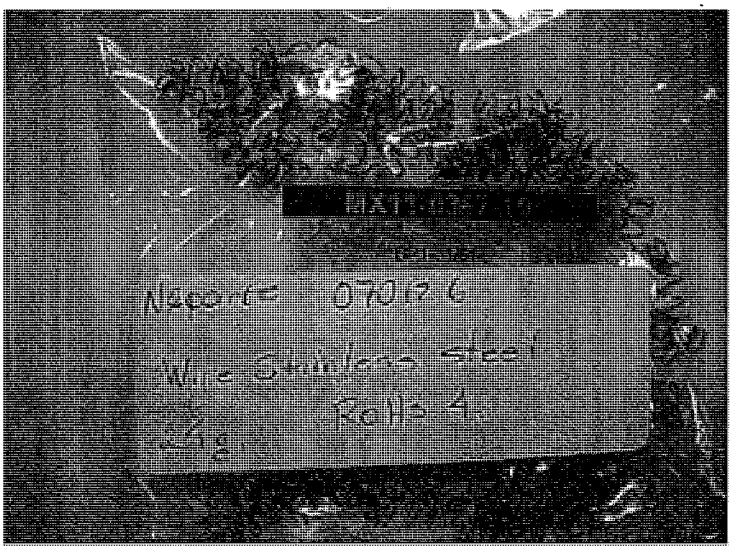

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Report No.: MX11-0746
Date : 2011-04-25

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. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila

ATTENTION: Ing. María Valdez

000001

Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo
C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
www.intertek.com

Report No.: MX11-0746
Date : 2011-04-25

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. María Valdez

SAMPLE DESCRIPTION

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

Sample Description	NP
Item No.	1) 875-525 Side terminal 2) 875-521 Back terminal 3) 883-055 5X20 Cont Clip 4) 891-023 Knob Insert 5) 912-296 Compress spring
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2011-04-07
Testing period	2011-04-11 to 2011-04-18

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TEST CONDUCTED

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

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Report No.: MX11-0746
Date : 2011-04-25

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1a (Base)	875-525 Side terminal	Pass See Result summary	---	---
1b (Plat)	875-525 Side terminal	Pass See Result summary	---	---
2a (Base)	875-521 Back terminal	Pass See Result summary	---	---
2b (Plat)	875-521 Back terminal	Pass See Result summary	---	---
3a (Base)	883-055 5X20 Cont Clip	Pass See Result summary	---	---
3b (Plat)	883-055 5X20 Cont Clip	Pass See Result summary	---	---
4a (Base)	891-023 Knob Insert	Pass See Result summary	---	---
4b (Plat)	891-023 Knob Insert	Pass See Result summary	---	---
5a (Base)	912-296 Compress spring	Pass See Result summary	---	---
5b (Plat)	912-296 Compress spring	Pass See Result summary	---	---

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000003

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Report No.: MX11-0746
Date : 2011-04-25

TEST CONDUCTED

Samples:

1) 875-525 Side terminal
2) 875-521 Back terminal

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(1a) base	(1b) Plat	(2a) base	(2b) Plat	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	30,34	ND	60,54	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

Samples:

3) 883-055 5X20 Cont Clip
4) 891-023 Knob Insert

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(3a) base	(3b) Plat	(4a) base	(4b) Plat	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	8,244	ND	18,05	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

000004

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Report No.: MX11-0746
Date : 2011-04-25

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) PLAT. 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 PLAT LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0746-01 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0746-02 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0746-03 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0746-04 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, PLAT WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0746-05 WERE TESTED SEPARATED.

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-5	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2010-45p19	2011-04-18	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
(1a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(1b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0
(2a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(2b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	83,3
(3a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(3b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0
(4a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	5,0
(4b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0
(5a) base	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-40p107	2011-04-13	MARY	20,0
(5b) Plat	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	125,0

The sample MX11-0746-05a for Lead was analyzed for EPA 7000, the method EPA 6010 presents espectral interference.

030006

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Report No.: MX11-0746
Date : 2011-04-25

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
(1a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(1b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0
(2a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(2b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	33,3
(3a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(3b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0
(4a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(4b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0
(5a) base	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	2,0
(5b) Plat	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p107	2011-04-12	MARY	50,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
(1a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(1b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,0
(2a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(2b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,25
(3a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(3b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,0
(4a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(4b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,0
(5a) base	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	0,25
(5b) Plat	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p108	2011-04-14	UBM,RNC	1,25

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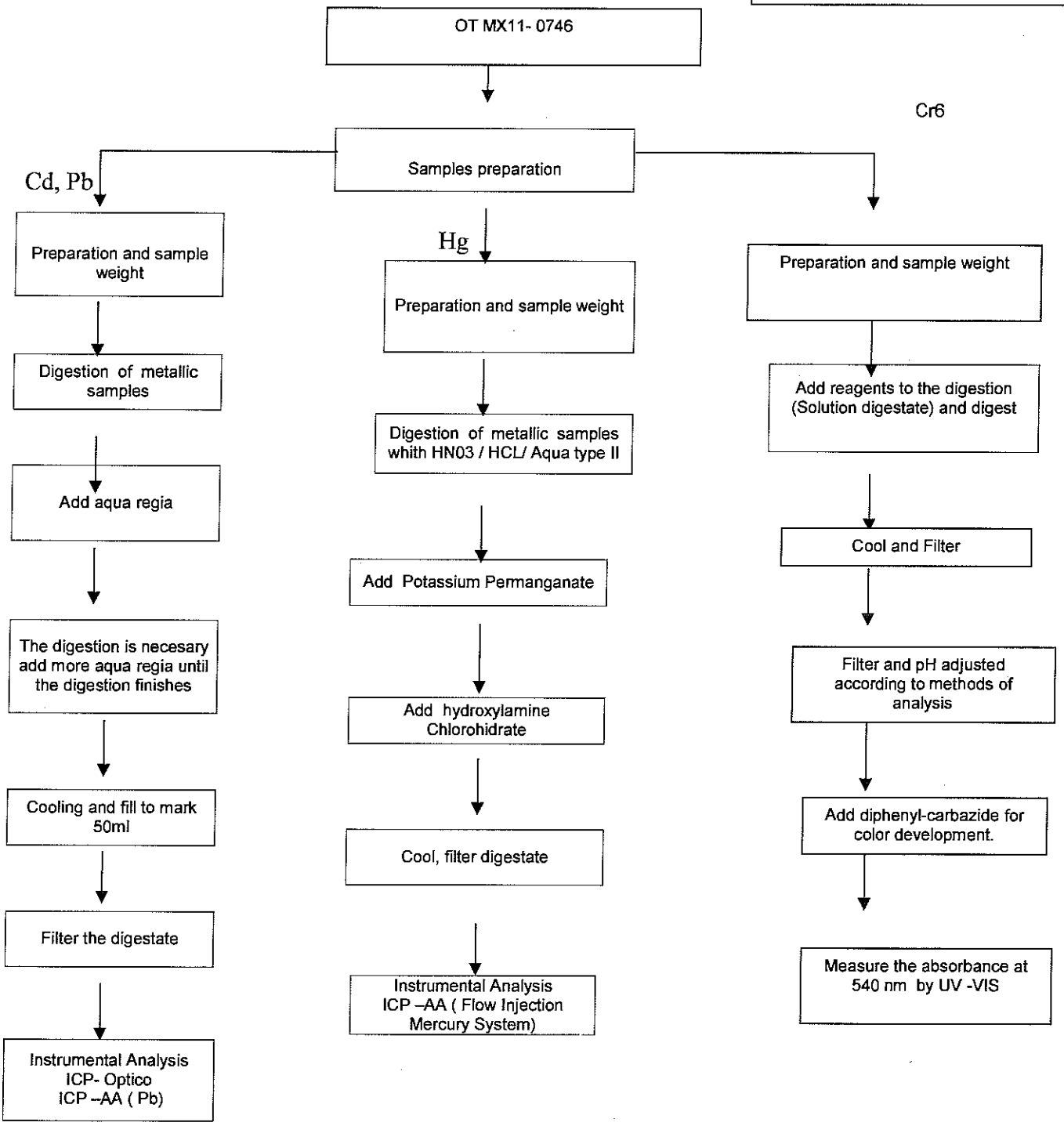
Report No.: MX11-0746
Date: 2011-04-25

Metallic samples
Flow chart for samples: 1 to 5



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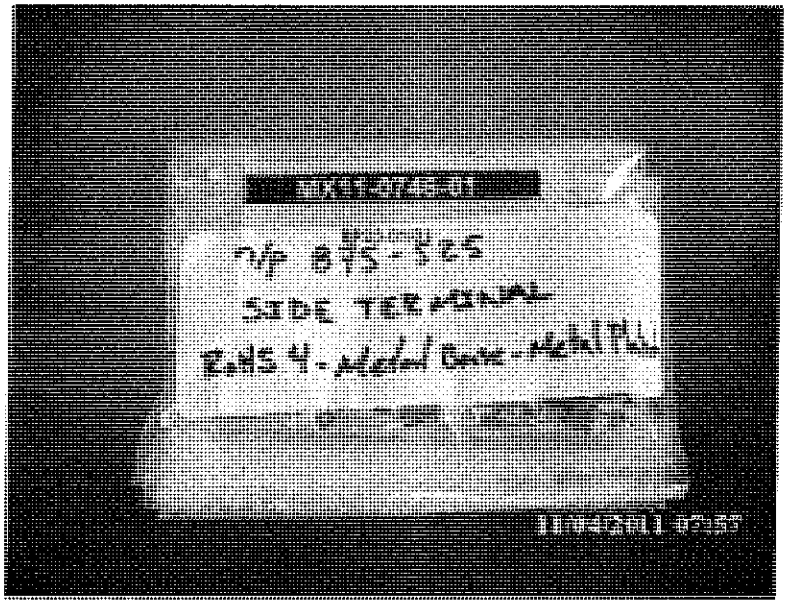

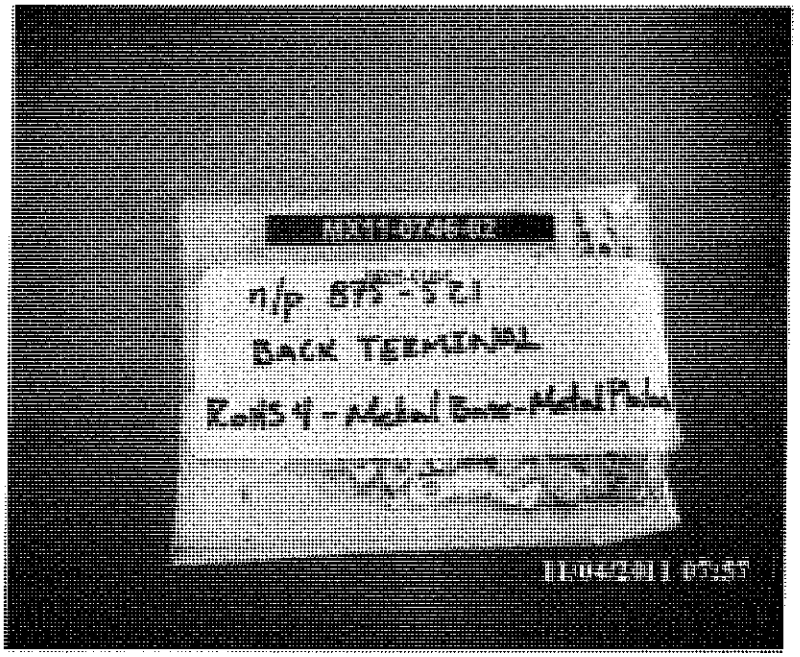

030009

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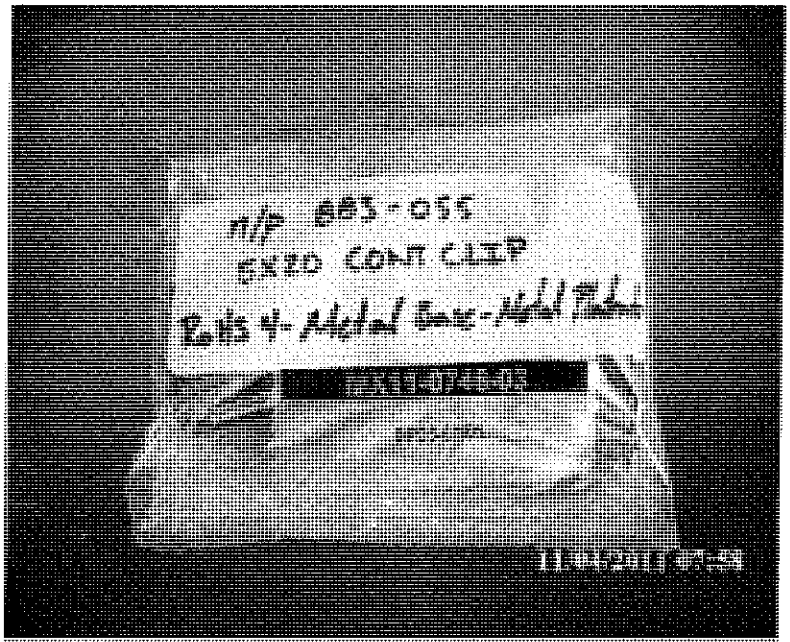
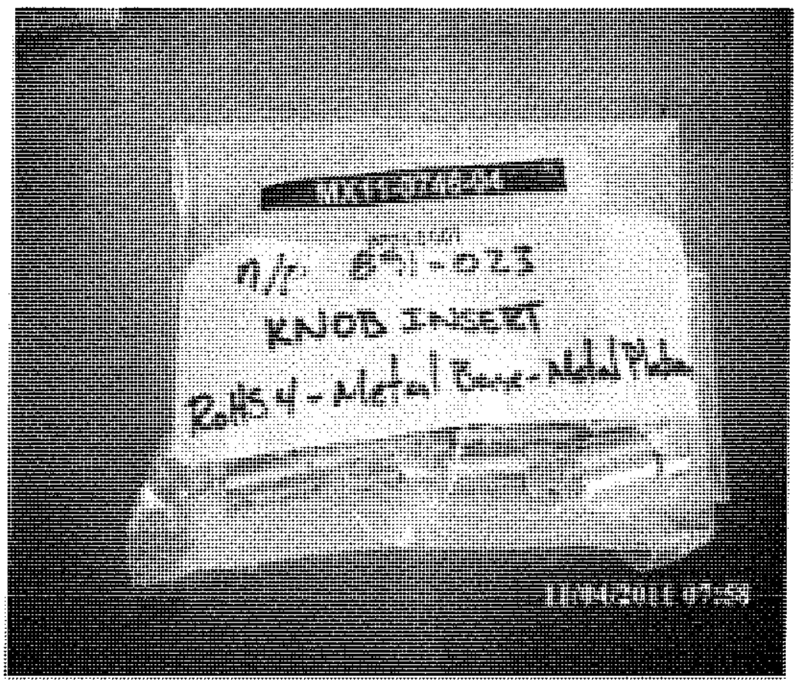
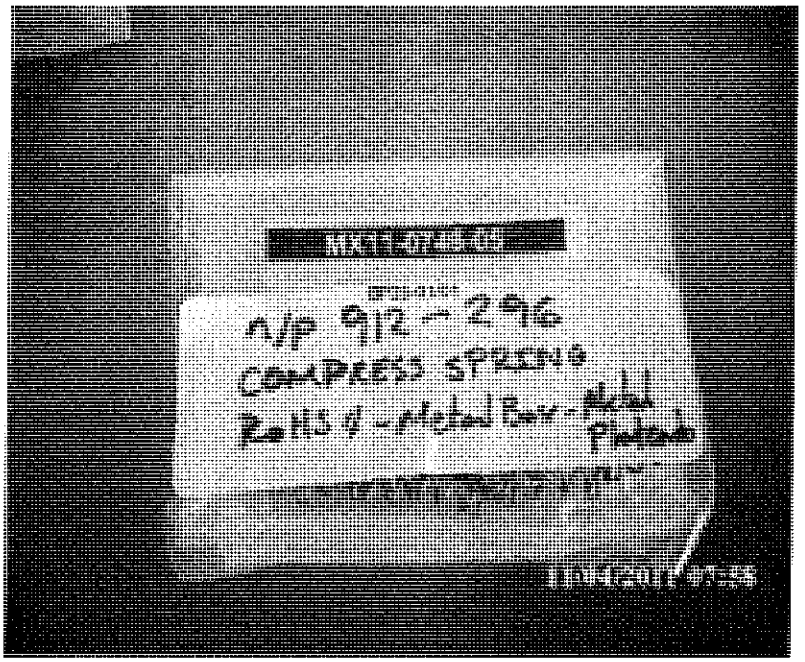




00010



030011

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Poniente 134 No. 660, Col. Industrial Vallejo
C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
www.intertek.com

Report No.: MX11-0834
Date : 2011-05-25

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. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila

ATTENTION: Ing. María Valdez

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Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo
C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
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Report No.: MX11-0834
Date : 2011-05-25

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. María Valdez

SAMPLE DESCRIPTION

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

Sample Description: NP

Item No.:
1) N/P 912-072 Spring
2) N/P 912-296 Compress Spring
3) N/P 070126 Wire stainless steel-030 DIA
4) N/P 875-521 Back Terminal

Country of Origin: NP
Buyer's Name: NP
Supplier's Name: NP
Date sample received: 2011-04-18
Testing period: 2011-04-25 to 2011-05-13

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TEST CONDUCTED

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

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CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1 (Base)	N/P 912-072 Spring	Pass See Result summary	---	---
1 (Plated)	N/P 912-072 Spring	Pass See Result summary	---	---
2 (Base)	N/P 912-296 Compress Spring	Pass See Result summary	---	---
2 (Plated)	N/P 912-296 Compress Spring	Pass See Result summary	---	---
3 (Base)	N/P 070126 Wire stainless steel-030 DIA	Pass See Result summary	---	---
3 (Plated)	N/P 070126 Wire stainless steel-030 DIA	Pass See Result summary	---	---
4 (Plated)	N/P 875-521 Back Terminal	Pass See Result summary	---	---

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Report No.: MX11-0834
Date : 2011-05-25

TEST CONDUCTED

Samples:

1) Base N/P 912-072 Spring
1) Plated N/P 912-072 Spring
2) Base N/P 912-296 Compress Spring
2) Plated N/P 912-296 Compress Spring

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(1) Base	(1) Plated	(2) Base	(2) Plated	
Cadmium (Cd) content	43,05	ND	38,50	ND	0,01% (100 ppm)
Lead (Pb) content	29,16	ND	31,96	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

Samples:

3) Base N/P 070126 Wire stainless steel-030 DIA
3) Plated N/P 070126 Wire stainless steel-030 DIA
4) Plated N/P 875-521 Back Terminal

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(3) Base	(3) Plated	(4) Plated	
Cadmium (Cd) content	38,58	ND	ND	0,01% (100 ppm)
Lead (Pb) content	31,59	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)

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Report No.: MX11-0834
Date : 2011-05-25

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 MX11-0834-01 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0834-02 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0834-03 WERE TESTED SEPARATED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0834-04 WERE TESTED SEPARATED.

000004

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Report No.: MX11-0834
Date : 2011-05-25

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-4	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2010-61p73	2011-05-13	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-20p22	2011-04-28	MARY	20,0
1 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	62,5
2 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-20p22	2011-04-28	MARY	20,0
2 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	83,33
3 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-20p22	2011-04-28	MARY	20,0
3 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	62,5
4 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-25	UBM	62,5

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	2,0
1 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	25,0
2 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	2,0
2 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	33,33
3 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	2,0
3 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	25,0
4 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p112	2011-04-26	MARY	25,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	0,25
1 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5
2 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	0,25
2 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5
3 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	0,25
3 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5
4 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p116	2011-04-26	UBM,RNC	2,5

The samples MX11-0834-1 (base), 2 (base) , 3 (base) for Lead were analyzed for EPA 7420, the method EPA 6010 presented espectral interference.

000005

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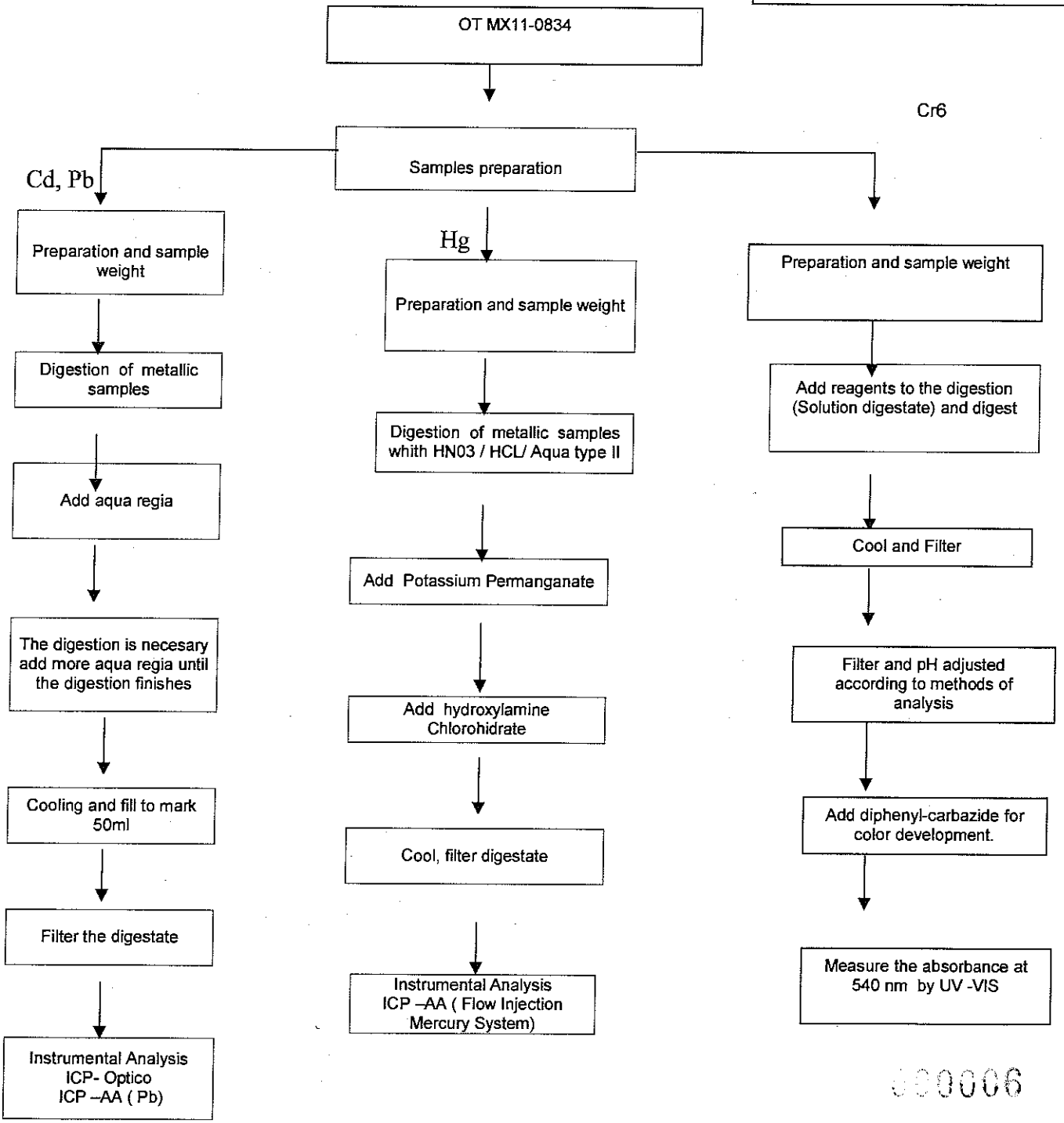
www.intertek.com

Report No.: MX11-0834
Date: 2011-05-25

Metallic samples
Flow chart for samples: 1, 2, 3, 4



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END REPORT

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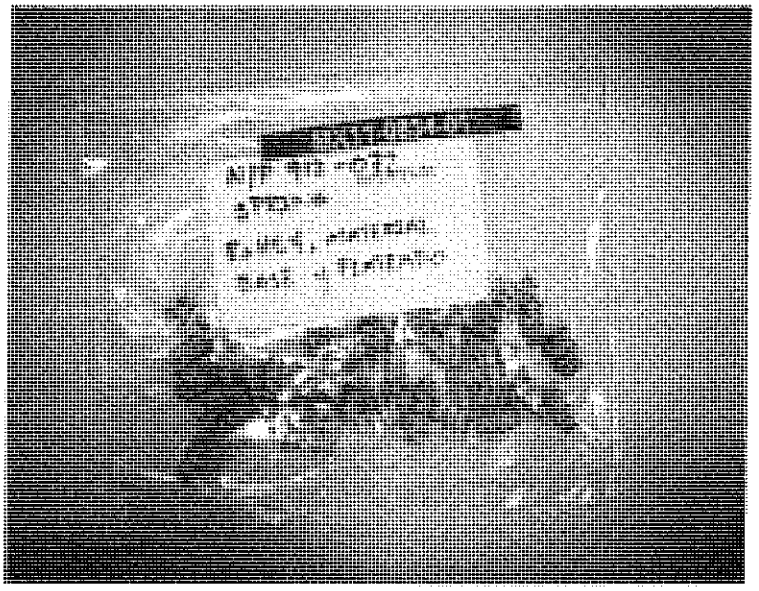

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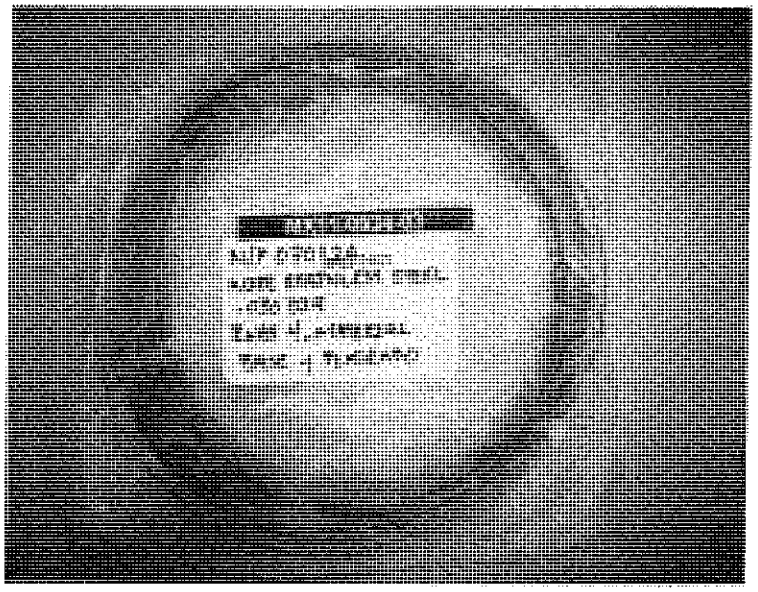

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Report No.: MX11-0368
Date : 2011-03-22

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. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila

ATTENTION: Ing. Maria Valdez

Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo
C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
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Report No.: MX11-0368
Date : 2011-03-22

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. Maria Valdez

SAMPLE DESCRIPTION

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

Sample Description: Serie 875

Item No.:
1) N/P 875-521 base y plateo
2) N/P 875-522 base y plateo
3) N/P 875-524 base y plateo
4) N/P 875-525 base y plateo

Country of Origin: NP
Buyer's Name: NP
Supplier's Name: NP
Date sample received: 2011-02-23
Testing period: 2011-02-28 to 2011-03-03

****

TEST CONDUCTED

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

****

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1 (a)	N/P 875-521 plateo	Pass See Result summary	---	---
1 (b)	N/P 875-521 base	Pass See Result summary	---	---
2(a)	N/P 875-522 plateo	Pass See Result summary	---	---
2(b)	N/P 875-522 base	Pass See Result summary	---	---
3(a)	N/P 875-524 plateo	Pass See Result summary	---	---
3(b)	N/P 875-524 base	Pass See Result summary	---	---
4(a)	N/P 875-525 plateo	Pass See Result summary	---	---
4(b)	N/P 875-525 base	Pass See Result summary	---	---

000002

****

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Report No.: MX11-0368
Date : 2011-03-22

TEST CONDUCTED

Samples:

1) N/P 875-521 base y plateo
2) N/P 875-522 base y plateo

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	1 (a) covering	1 (b) base	2 (a) covering	2 (b) base	
Cadmium (Cd) content	62,81	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	144,7	50,16	ND	83,13	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

Samples:

3) N/P 875-524 base y plateo
4) N/P 875-525 base y plateo

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	3 (a) covering	3 (b) base	4 (a) covering	4 (b) base	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	8,771	ND	55,88	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

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Report No.: MX11-0368
Date : 2011-03-22

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 quantification limit.
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 G.
coord. de área

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 MX11-0368-01 WERE TESTED SEPARETED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0368-02 WERE TESTED SEPARETED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0368-03 WERE TESTED SEPARETED.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0368-04 WERE TESTED SEPARETED.

000004

Intertek Testing Services de México, S.A. de C.V.
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Report No.: MX11-0368
Date : 2011-03-22

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-4	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2010-45p17	2011-03-03	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
1 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
2 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	250,0
2 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
3 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
3 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0
4 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	125,0
4 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	5,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
1 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
2 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	100,0
2 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
3 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
3 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0
4 (a)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	50,0
4 (b)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p5	2011-03-02	MARY,JMR	2,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
1 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
2 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
2 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
3 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
3 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25
4 (a)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	625,0
4 (b)	Mercury (Hg) content	With reference to USEPA 7471, by EPA 7471	MET2010-22p4	2011-02-28	UBM,RNC	0,25

000005

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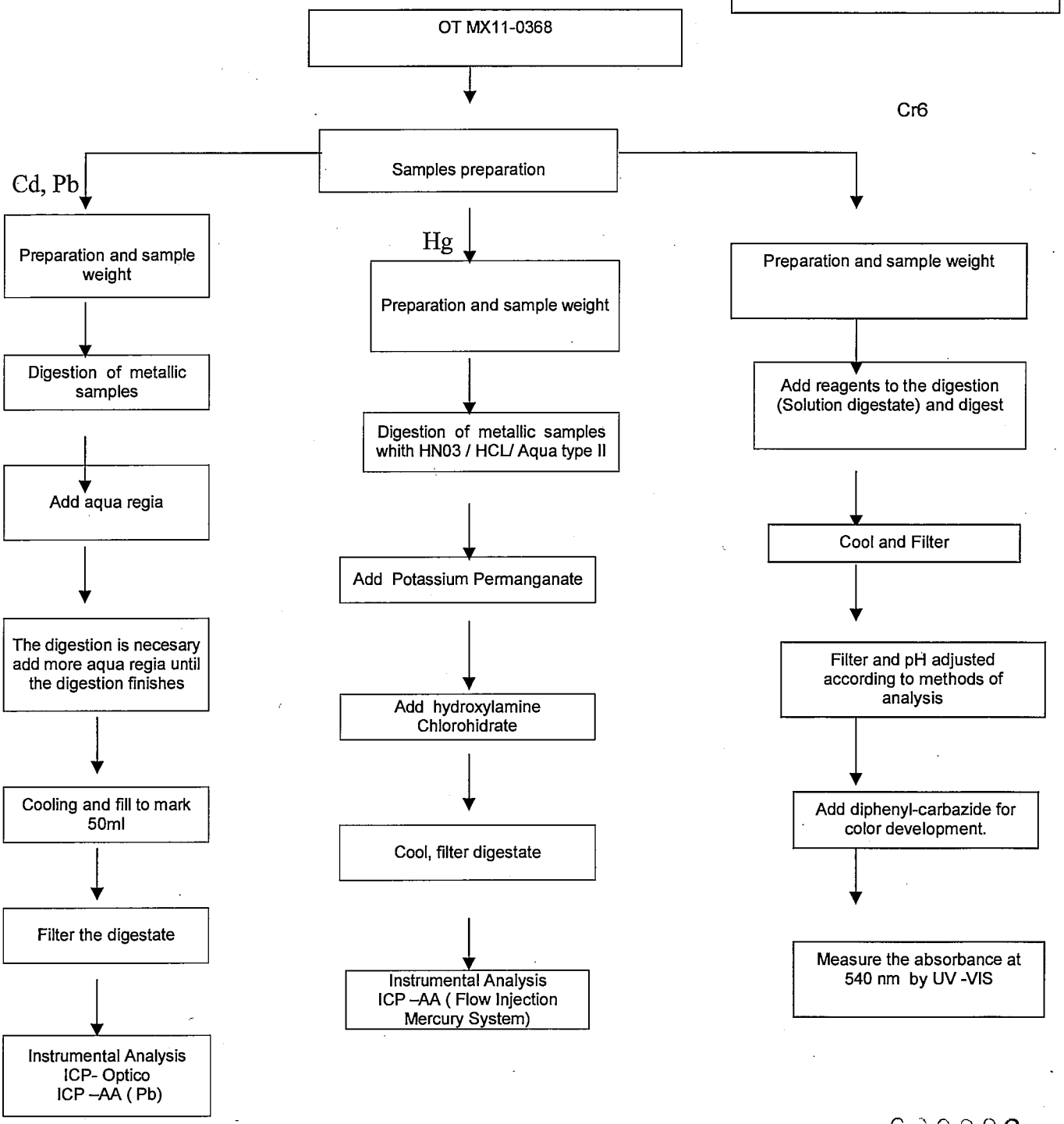
Report No.: MX11-0368
Date: 2011-03-22

Metallic samples
Flow chart for samples: 1(a), 1(b), 2(a), 2(b), 3(a), 3(b), 4(a), 4(b)



CJ0006

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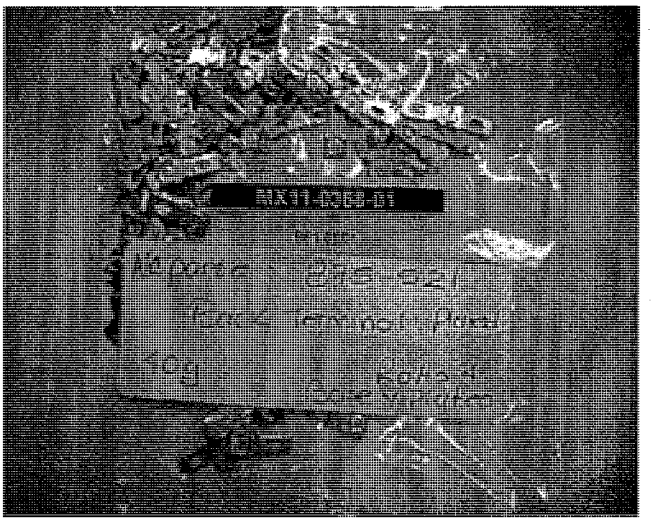
Report No.: MX11-0368
Date : 2011-03-22



C00007

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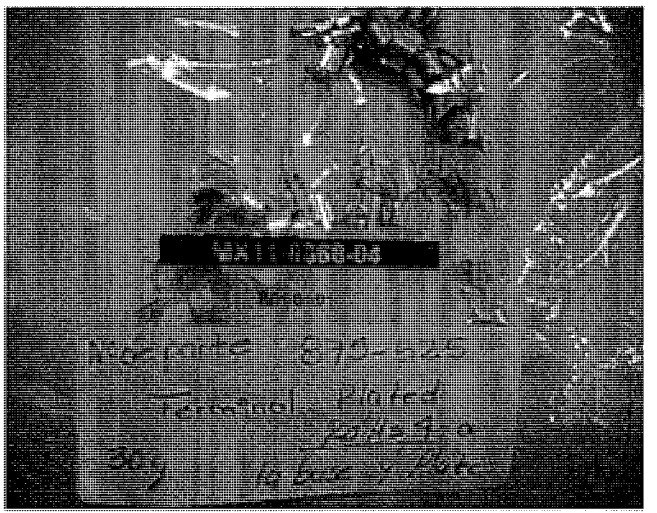
Report No.: MX11-0368
Date : 2011-03-22



000008

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Poniente 134 No. 660, Col. Industrial Vallejo
C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
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Test Report Number : TWNC00235725

Applicant: Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martinez #1800
Col. Magisterio Seccion 38 C.P.
26070 Piedra Negras, Coahuila,
Mexico

Date : Dec 09, 2011

Sample Description:
One (1) group of submitted samples said to be :
Part Description : VALOX CK 48 BK(RESIN)
Part Number : 057259
Date Sample Received : Dec 06, 2011
Date Test Started : Dec 06, 2011

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

Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
114 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Number : TWNC00235725

Test Conducted

(Ⅰ) Test Result Summary :

Test Item	Result (ppm)
	Black Plastic Pellet
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	14
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)	1897
Chlorine (Cl)	ND
Bromine (Br)	31855
Iodine (I)	ND
Phthalates	
Di(2-ethylhexyl) Phthalate (DEHP)	ND
Dibutyl Phthalate (DBP)	ND
Benzyl Butyl Phthalate (BBP)	ND
Others	
Hexabromocyclododecane (HBCDD)	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 : Dec 06, 2011
Test Period : Dec 06, 2011 To Dec 09, 2011

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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:

Test Item	Test 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 IEC 62321 edition 1.0:2008 in annex C, 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

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Test Conducted

(Ⅲ) Test Method:

Test Item	Test Method	Reporting Limit
Halogen Content	With reference to EN 14582:2007 by calorimetric bomb with oxygen and determined by ion chromatography	50 ppm
Phthalates	With reference to EN 14372: 2004, by solvent extraction and determined by GC-MSD	50 ppm
Hexabromocyclododecane (HBCDD)	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	10 ppm

Remark: Reporting limit = Quantitation limit of analyte in sample

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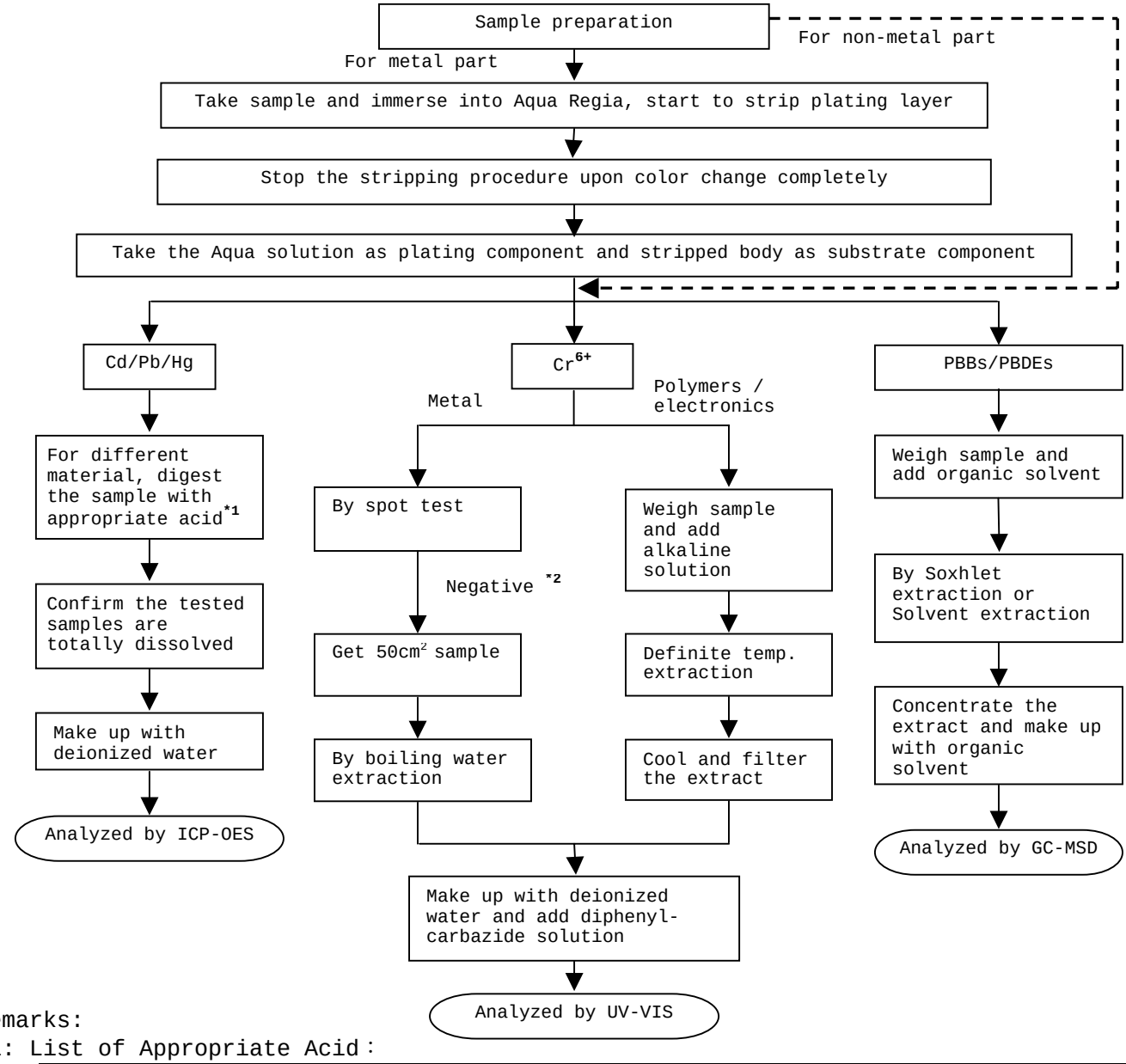
Test Conducted

(Ⅳ) Measurement Flowchart:

Test for Cd/Pb/Hg/Chromium (VI)/PBBS/PBDES 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

*2: If the result of spot test is positive, Chromium VI would be determined as detected.

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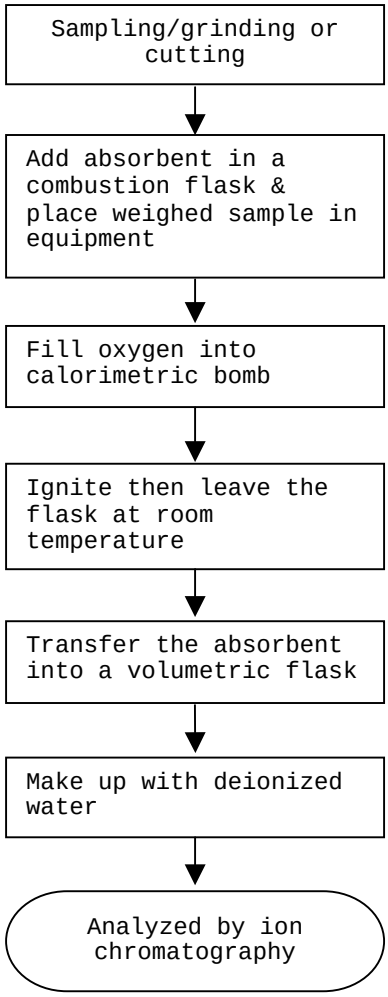
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Test Conducted

(Ⅳ) Measurement Flowchart:

Test for Halogen Content

Reference Standard：EN 14582



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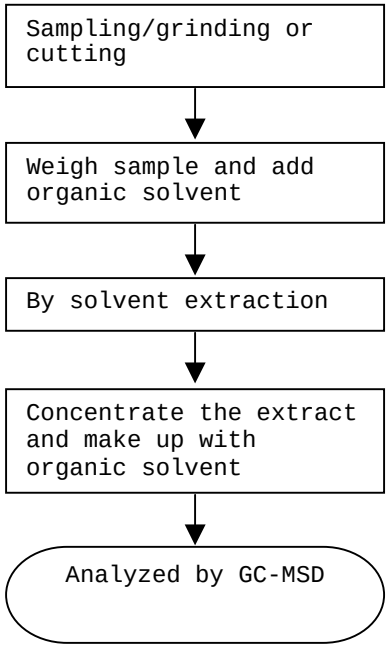
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Test Conducted

(Ⅳ) Measurement Flowchart:

Test For Phthalates Contents
Reference Method: EN 14372: 2004



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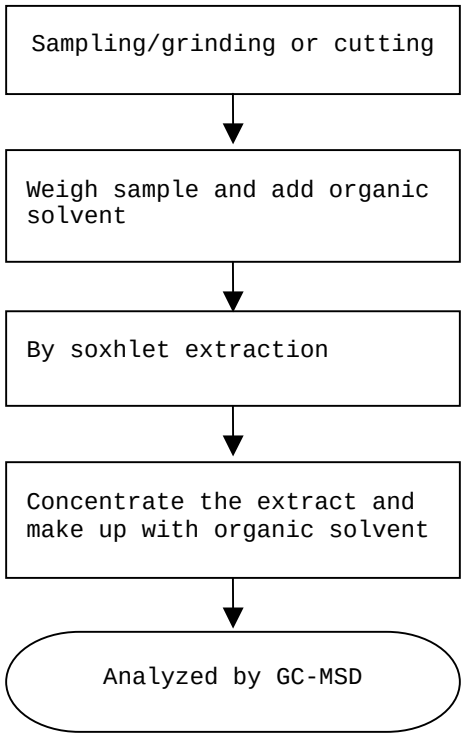
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Test Conducted
(Ⅳ) Measurement Flowchart:

Test For Hexabromocyclododecane (HBCDD)
Reference Standard：USEPA 3540C



End of Report

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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Number : TWNC00235725

Test Conducted

Photo

Intertek Testing Services Taiwan Ltd.
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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Report No.: MX10-2024
Date : 2010-09-29

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. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila

ATTENTION: Ing. Mario Falcón

Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo
C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
www.intertek.com

Report No.: MX10-2024
Date : 2010-09-29

TEST REPORT

APPLICANT

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

SAMPLE DESCRIPTION

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

Sample Description	Hardware Sold W/Fuse holders
Item No.	1) N/P 901-260 2) N/P 901-148 3) N/P 901-108 4) N/P 901-124 5) N/P 901-184 6) N/P 901-248 7) N/P 903-114 8) N/P 904-126 9) N/P 905-041
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2010-09-13
Testing period	2010-09-16 to 2010-09-28

****

TEST CONDUCTED

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

****

Intertek Testing Services de México, S.A. de C.V.
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C.P. 02300, Del. Azcapotzalco, México, D.F. Tel.: 50912150
www.intertek.com

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1	N/P 901-260	Pass See Result summary	---	---
2	N/P 901-148	Pass See Result summary	---	---
3	N/P 901-108	Pass See Result summary	---	---
4	N/P 901-124	Pass See Result summary	---	---
5	N/P 901-184	Pass See Result summary	---	---
6	N/P 901-248	Pass See Result summary	---	---
7	N/P 903-114	Pass See Result summary	---	---
8	N/P 904-126	Pass See Result summary	---	---
9	N/P 905-041	Pass See Result summary	---	---

****

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Report No.: MX10-2024
Date : 2010-09-29

TEST CONDUCTED

Samples:

1) N/P 901-260
2) N/P 901-148
3) N/P 901-108
4) N/P 901-124

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(1)	(2)	(3)	(4)	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	17,06	22,44	ND	7,814	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs) Total	ND	ND	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND	—
Dibromobiphenyl (DiBB)	ND	ND	ND	ND	—
Tribromobiphenyl (TriBB)	ND	ND	ND	ND	—
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND	—
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND	—
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND	—
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND	—
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND	—
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND	—
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND	—
POLYBROMINATED DIPHENYL ETHERS (PBDEs) Total	ND	ND	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	ND	---

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Report No.: MX10-2024
Date : 2010-09-29

TEST CONDUCTED

Samples:

5) N/P 901-184
6) N/P 901-248
7) N/P 903-114
8) N/P 904-126

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(5)	(6)	(7)	(8)	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	12,20	14,97	49,10	9,912	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs) Total	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) Total	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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Report No.: MX10-2024
Date : 2010-09-29

TEST CONDUCTED
Samples:

9) N/P 905-041

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm) (9)	Limit
Cadmium (Cd) content	ND	0,01% (100 ppm)
Lead (Pb) content	ND	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 del
Jefe de área

Laboratory Manager

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

000006

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Report No.: MX10-2024
Date : 2010-09-29

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 MX10-2024-01 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-02 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-03 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-04 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-05 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-06 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-07 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-08 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-2024-09 WERE TESTED TOGETHER.

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-9	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2010-45p3	2010-09-21	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1, 2, 3, 4, 5, 6, 7	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004734-PCL	2010-09-16,28	▲ CONT	50,0
1, 2, 3, 4, 5, 6, 7	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004734-PCL	2010-09-16,28	▲ CONT	50,0

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Report No.: MX10-2024
Date : 2010-09-29

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
2	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
3	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
4	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
5	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
6	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
7	Lead (Pb) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p87	2010-09-21	DCL	5,0
8	Lead (Pb) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p87	2010-09-21	DCL	5,0
9	Lead (Pb) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p87	2010-09-21	DCL	5,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
2	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
3	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
4	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
5	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
6	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
7	Cadmium (Cd) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p87	2010-09-21	DCL	2,0
8	Cadmium (Cd) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p87	2010-09-21	DCL	2,0
9	Cadmium (Cd) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p87	2010-09-21	DCL	2,0

Sample Number	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	MET2010-32p84	2010-09-20	RNC,UBM	0,250
2	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250
3	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250
4	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250
5	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250
6	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250
7	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p85	2010-09-20	RNC,UBM	0,250
8	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p85	2010-09-20	RNC,UBM	0,250
9	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p85	2010-09-20	RNC,UBM	0,250

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Report No.: MX10-2024
Date: 2010-09-29

Plastic samples
Flow char for samples: 1, 2, 3, 4, 5, 6

OT MX10- 2024

Samples preparation

Cd, Pb

Preparation and sample weight

Add Nitric Acid (5mL)

Digestion by Microwave during 20 minutes

Allow samples cool to temperature room

Transfer digested sample to 50mL volumetric flask and Adjust to the final volume with reagent water

Filter the digestate

Instrumental Analysis
ICP- Optico
ICP –AA (Pb)

Hg

Preparation and sample weight

Digestion of plastic samples whith HN03 / HCL/ Aqua type II

Add Potassium Permanganate

Add hydroxylamine Chlorohidrate

Cool, filter digestate

Instrumental Analysis
ICP –AA (Flow Injection Mercury System)

Cr6

Preparation and sample weight

Add reagents to the digestion (Solution digestate) and digest

Cool and Filter

Filter and pH adjusted according to methods of analysis

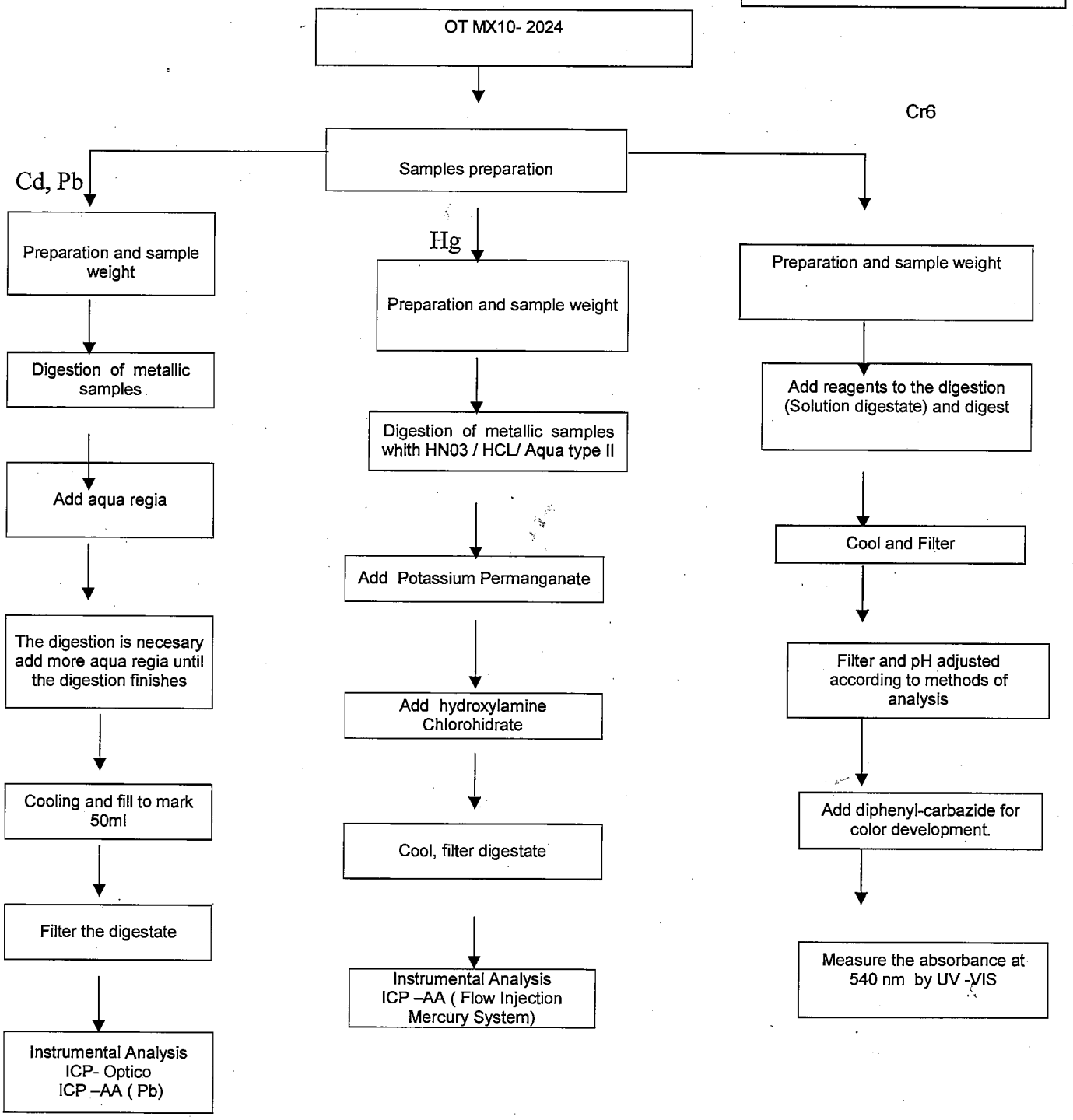
Add diphenyl-carbazide for color development.

Measure the absorbance at 540 nm by UV -VIS

Intertek

Report No.: MX10-2024
Date: 2010-09-29

Flow chart for samples: 7



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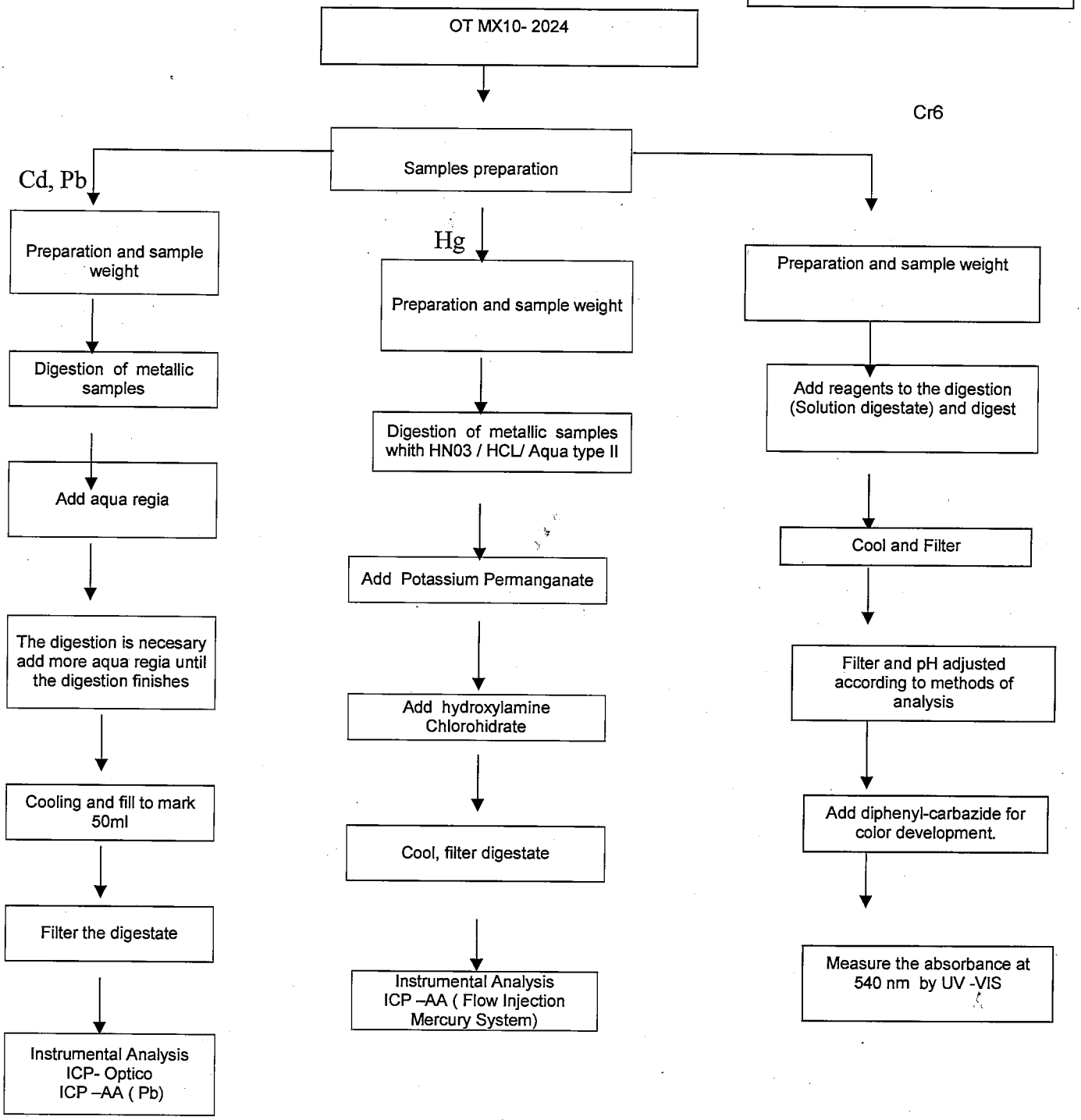
000010

Intertek

Report No.: MX10-2024
Date: 2010-09-29

Metallic samples
Flow chart for samples: 8, 9



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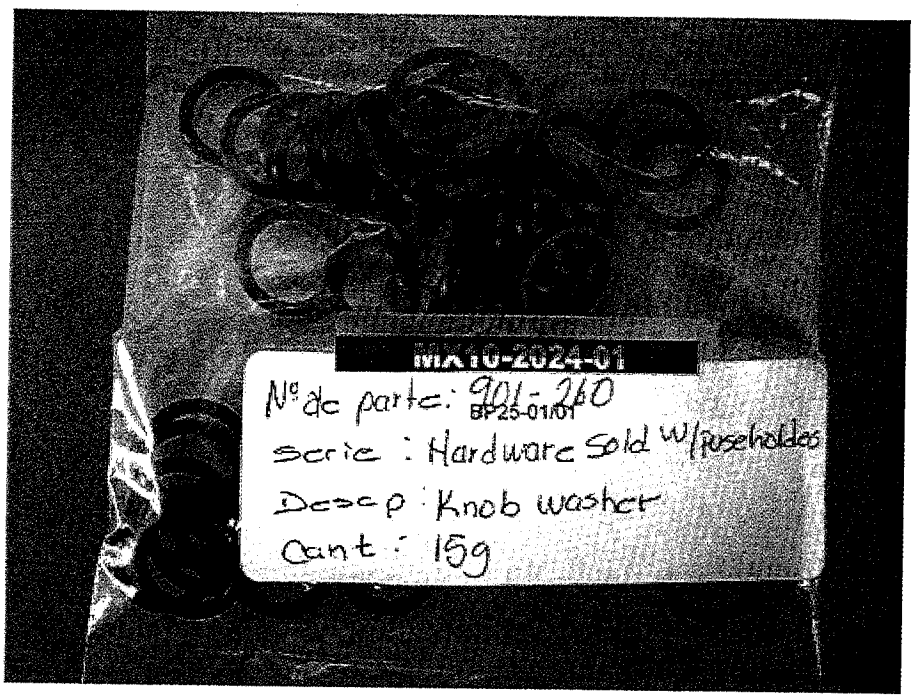
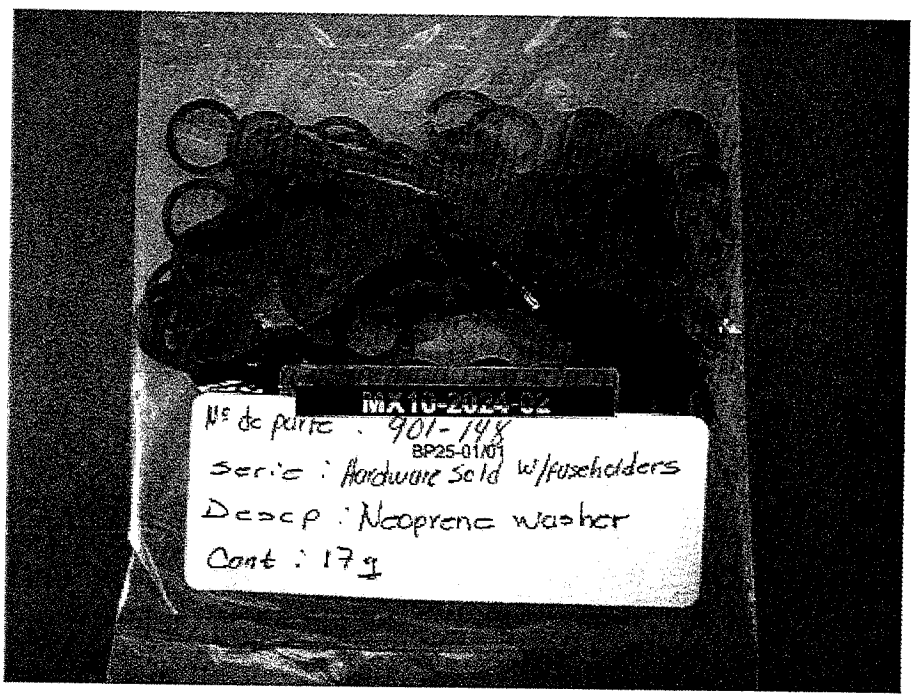
MX10-2024





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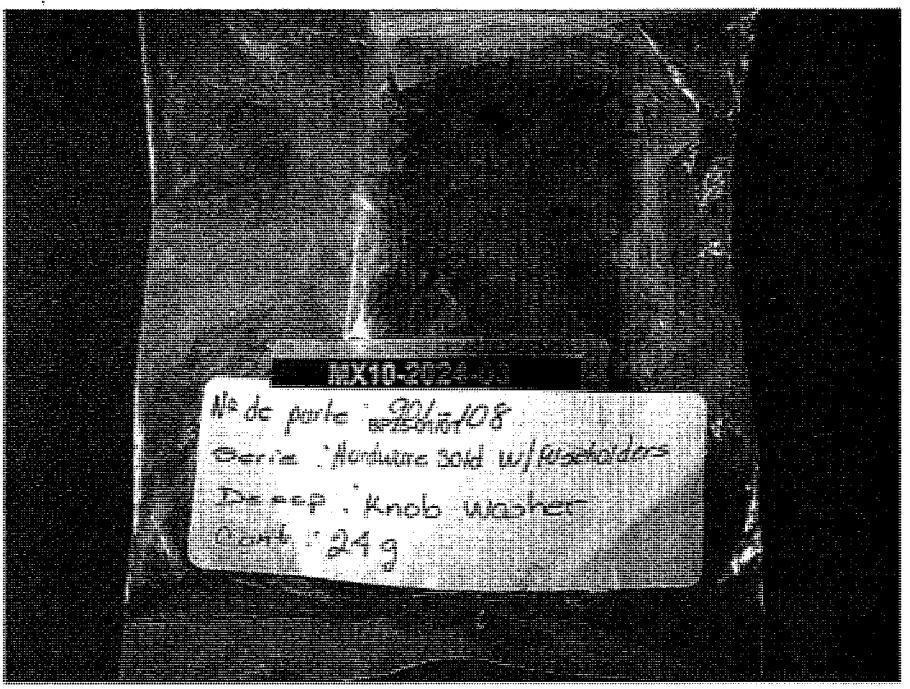

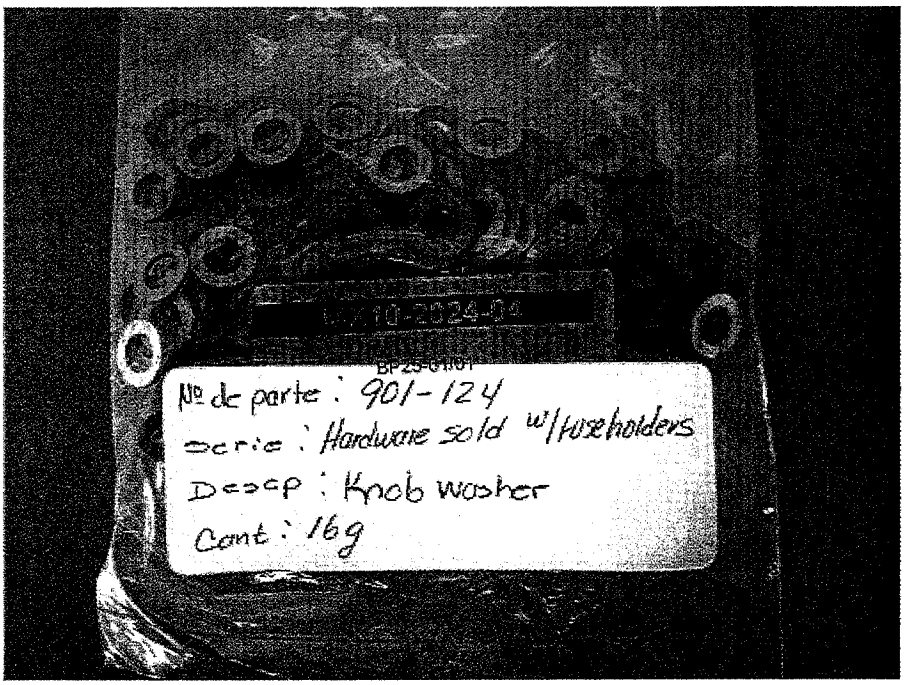

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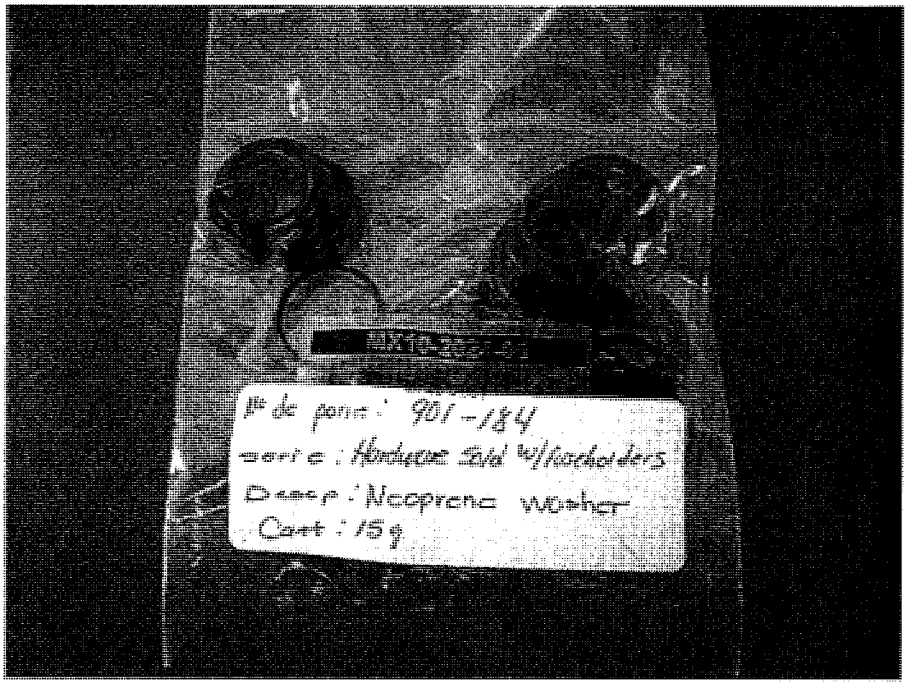

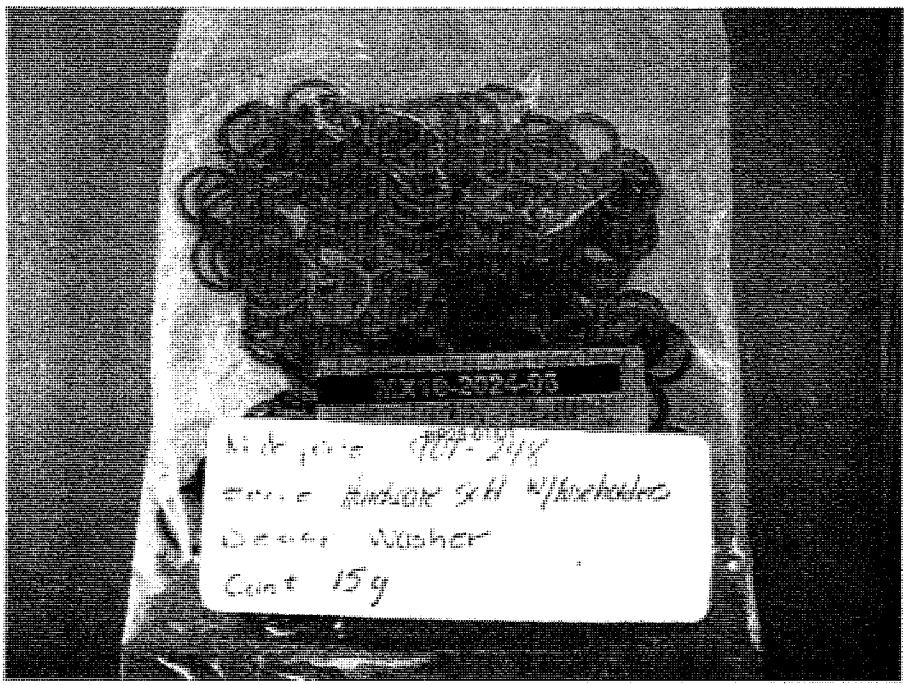

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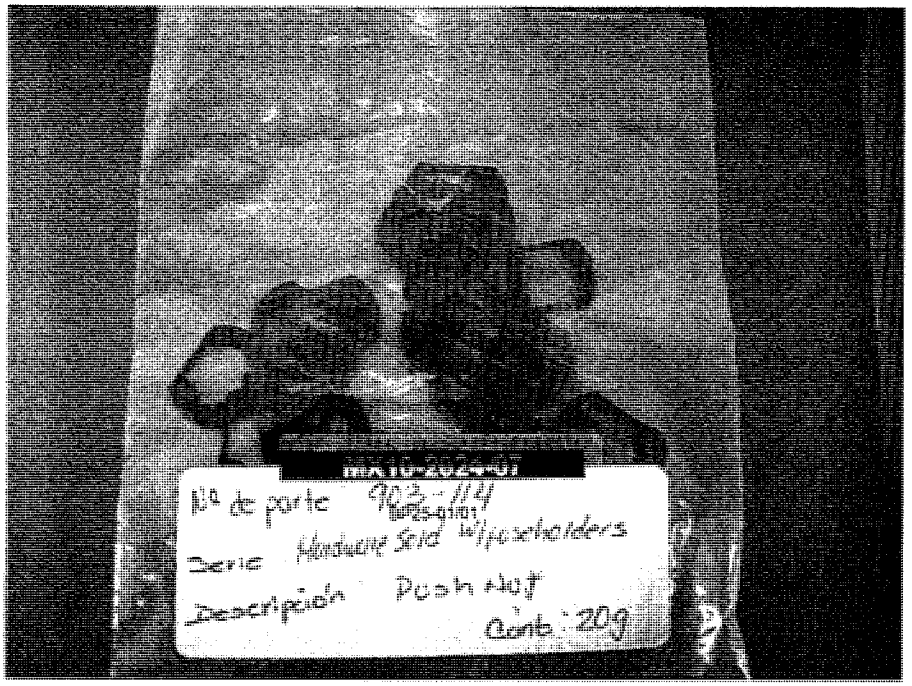

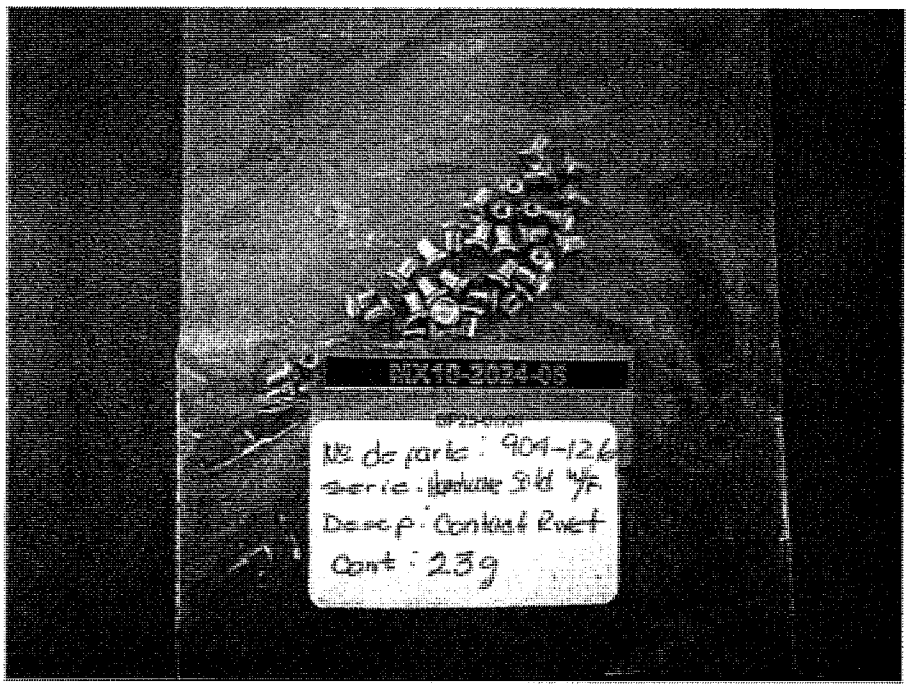

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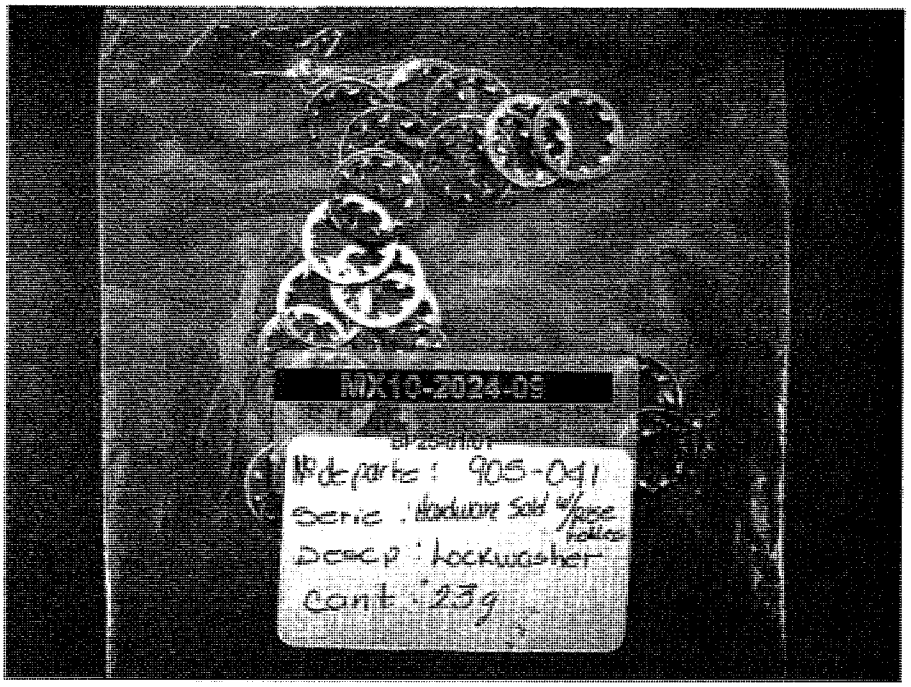
MX10-2024



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Test Report Number : TWNC00225550

Applicant: Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martinez #1800
Col. Magisterio Seccion 38 C.P.
26070 Piedra Negras, Coahuila,
Mexico

Date : Sep 30, 2011

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

Part Description	: Hex Nut
Part Number	: 903-097
Date Sample Received	: Sep 26, 2011
Date Test Started	: Sep 27, 2011

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

Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Number : TWNC00225550

Test Conducted

(Ⅰ) Test Result Summary :

Test Item	Result (ppm) Black Plastic
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	ND
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)	ND
Chlorine (Cl)	ND
Bromine (Br)	ND
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 : Sep 26, 2011
Test Period : Sep 27, 2011 To Sep 29, 2011

Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Number : TWNC00225550

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:

Test Item	Test 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 IEC 62321 edition 1.0:2008 in annex C, by alkaline digestion and determined by UV-Vis spectrophotometer.	1 ppm

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Test Conducted

(Ⅲ) Test Method:

Test Item	Test Method	Reporting Limit
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 calorimetric bomb with oxygen and determined by ion chromatography	50 ppm

Remark: Reporting limit = Quantitation limit of analyte in sample

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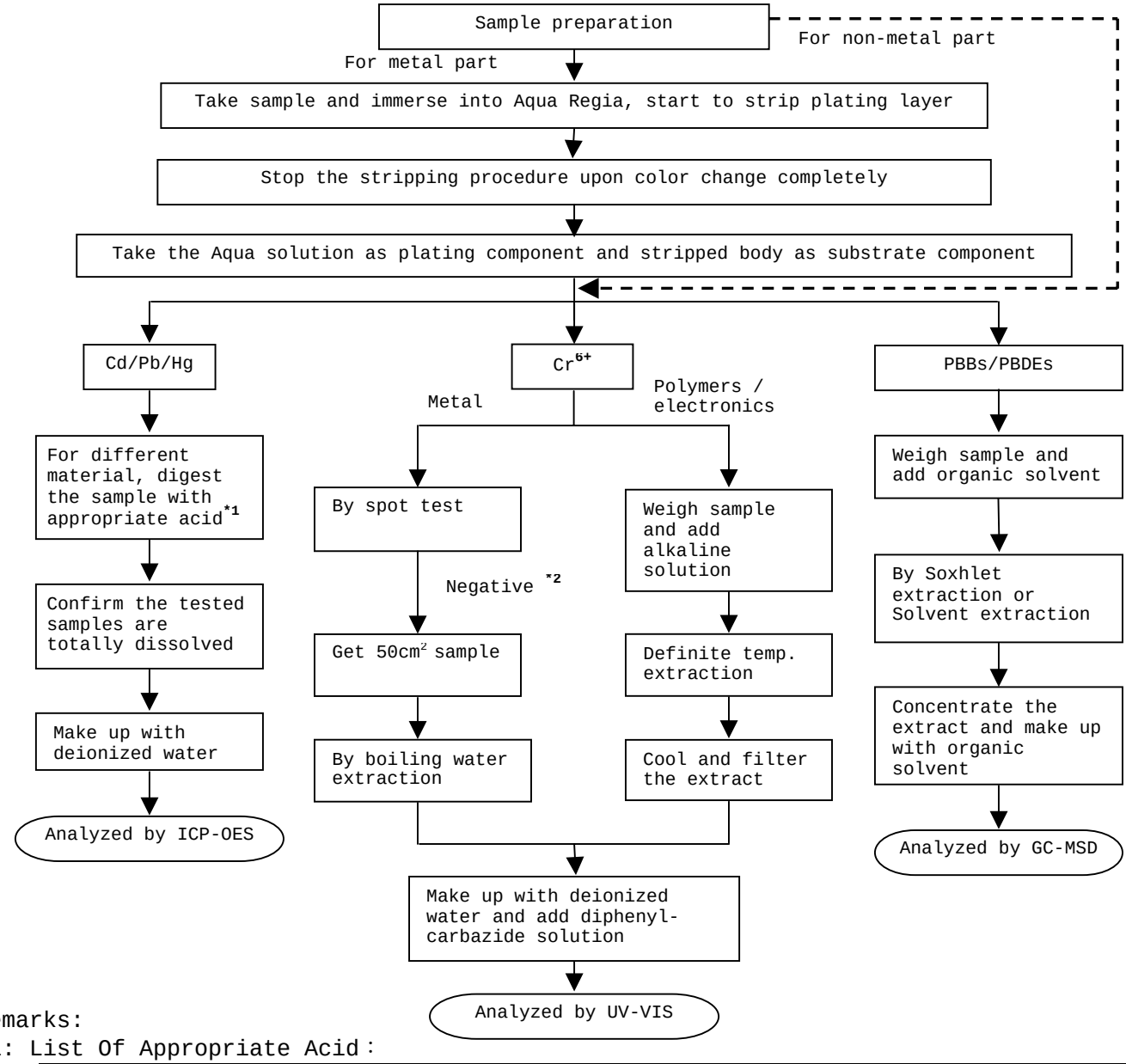
Number : TWNC00225550

Test Conducted

(Ⅳ) Measurement Flowchart:
Test For Cd/Pb/Hg/Chromium (VI)/PBBS/PBDES 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

*2: If the result of spot test is positive, Chromium VI would be determined as detected.

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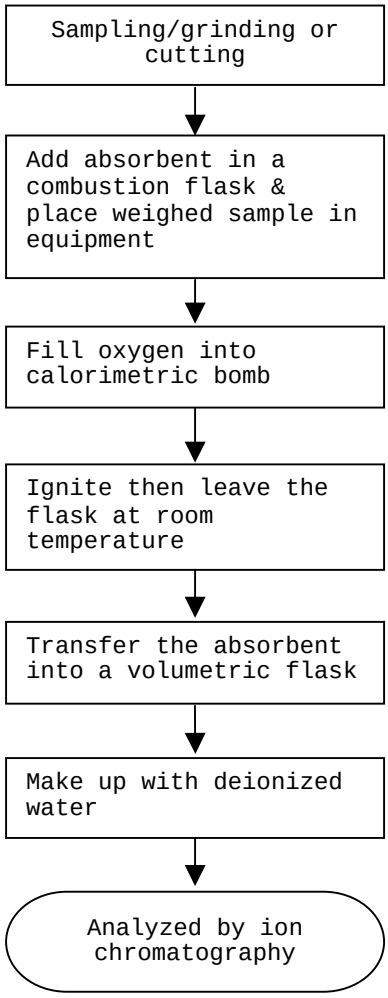
Test Conducted

(Ⅳ) Measurement Flowchart:

Test For Halogen Content
Reference Standard：EN 14582



End of Report

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Test Conducted

Photo

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