ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: Traditional PC Board Fuse Clips

Product #: 100xxx series

Issue Date: July 28, 2011

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 Traditional PC Board Fuse 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	100 Series	01000054Z	3-6
2	100 Series	01000057Z	7-11
3	100 Series	01000058Z	12-16
4	100 Series	01000056Z	17-19

Report No.: MX11-0928-11
Date：2011-06-16

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.
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www.intertek.com

Report No.: MX11-0928-11
Date：2011-06-16

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.	11) N/P 01000054Z
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2011-05-05
Testing period	2011-05-09 to 2011-05-13

****

TEST CONDUCTED

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

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
11 (Base)	N/P 01000054Z	Pass See Result summary	---	---
11 (Plated)	N/P 01000054Z	Pass See Result summary	---	---

****

TEST CONDUCTED

Samples:

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11) Base N/P 01000054Z
11) Plated N/P 01000054Z

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(11) Base	(11) Plated	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	71,07	ND	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.
µg/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 MX11-0928-11 WERE TESTED SEPARATED.

Test method：

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Report No.: MX11-0928-11
Date：2011-06-16

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
11	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
11 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	5,0
11 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	41,67

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
11 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	2,0
11 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	16,7

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
11 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	0,25
11 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	2,5

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Report No.: MX11-0928-13
Date : 2011-06-16

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.	13) N/P 01000057Z
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2011-05-05
Testing period	2011-05-09 to 2011-05-13

****

TEST CONDUCTED

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

****

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
13 (Base)	N/P 01000057Z	Pass See Result summary	---	---
13 (Plated)	N/P 01000057Z	Pass See Result summary	---	---

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Report No.: MX11-0928-13
Date : 2011-06-16

TEST CONDUCTED

Samples:

13) Base N/P 01000057Z
13) Plated N/P 01000057Z

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(13) Base	(13) Plated	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	23,75	ND	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 above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

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Prepared and checked by :
For Intertek

Laboratory Manager

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REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0928-13 WERE TESTED SEPARATED.

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

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Report No.: MX11-0928-13
Date : 2011-06-16

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
13	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
13 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	5,0
13 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	50,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
13 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	2,0
13 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
13 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	0,25
13 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	2,5

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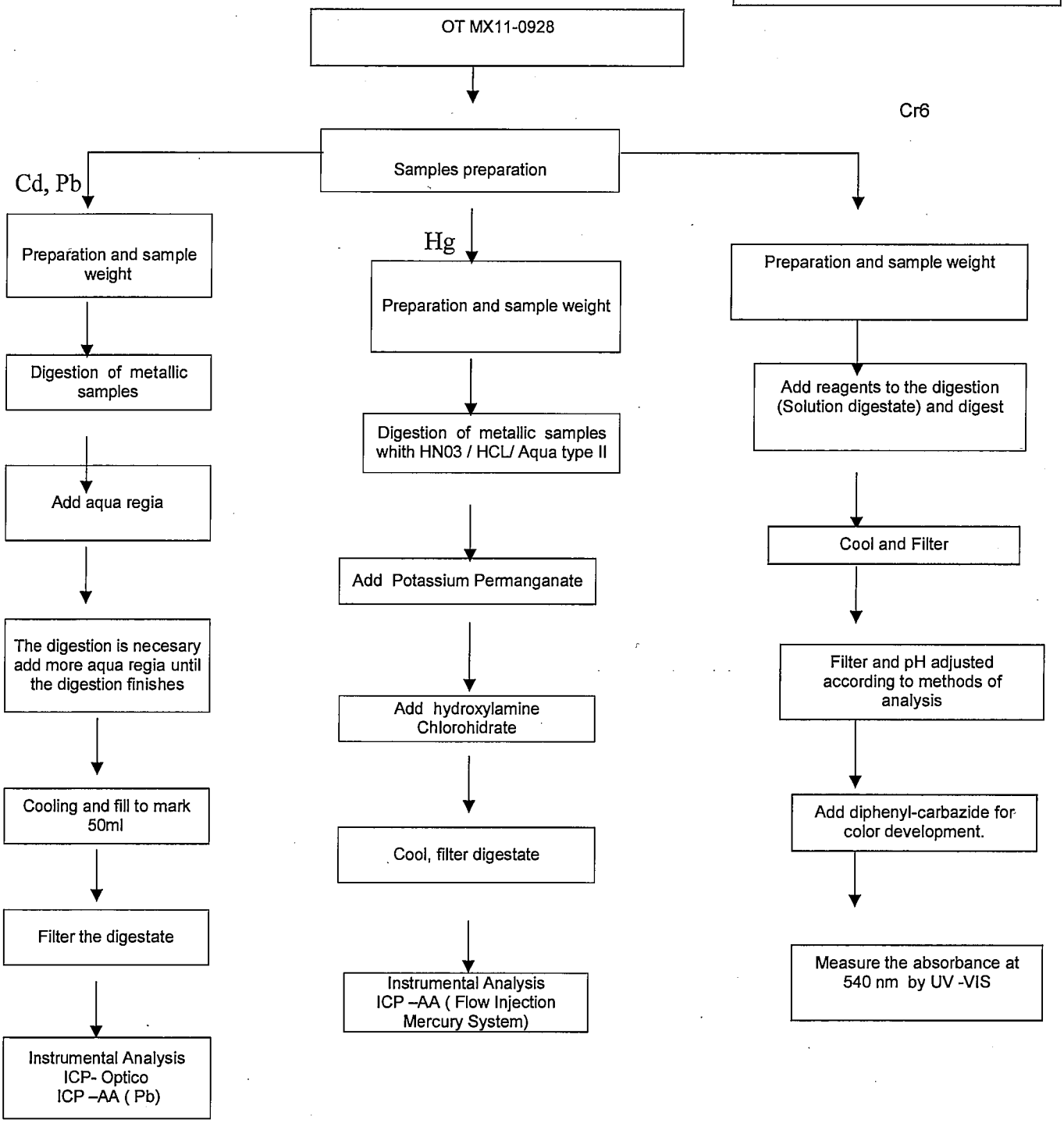
Report No.: MX11-0928-13
Date: 2011-06-16

Metallic samples
Flow chart for sample: 13



000005

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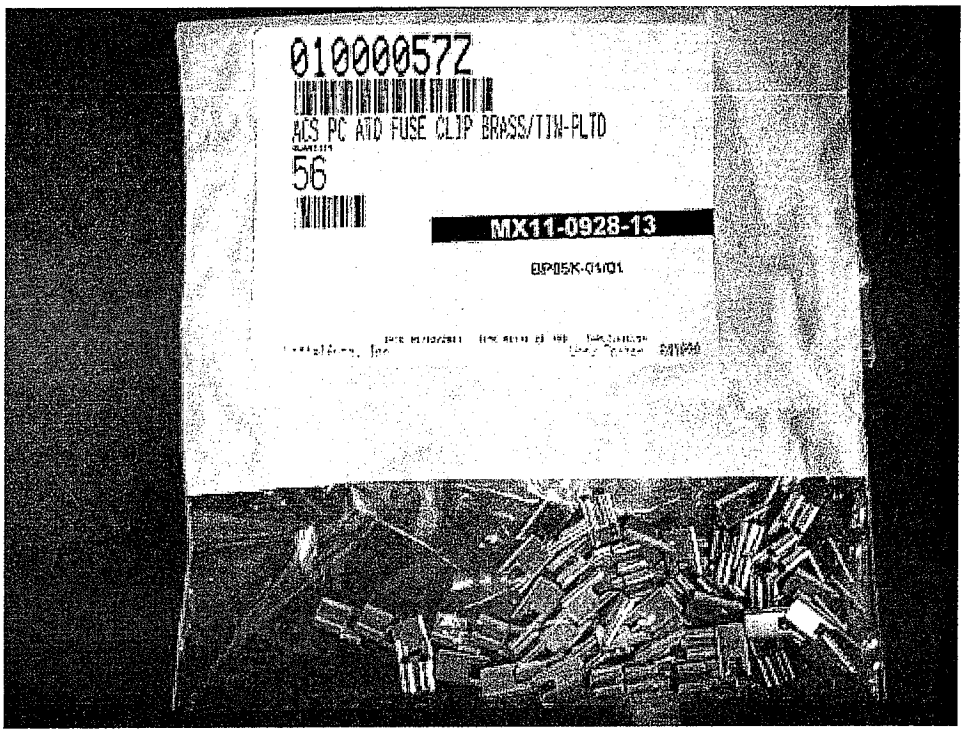

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Report No.: MX11-0928-14
Date : 2011-06-16

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.	14) N/P 01000058Z
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2011-05-05
Testing period	2011-05-09 to 2011-05-13

****

TEST CONDUCTED

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

****

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
14 (Base)	N/P 01000058Z	Pass See Result summary	---	---
14 (Plated)	N/P 01000058Z	Pass See Result summary	---	---

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Intertek

Report No.: MX11-0928-14
Date : 2011-06-16

TEST CONDUCTED

Samples:

14) Base N/P 01000058Z
14) Plated N/P 01000058Z

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(14) Base	(14) Plated	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	64,07	63,55	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 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

Laboratory Manager

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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 MX11-0928-14 WERE TESTED SEPARATED.

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Report No.: MX11-0928-14
Date : 2011-06-16

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
14	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
14 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p130	2011-05-10	MARY	5,0
14 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p130	2011-05-10	MARY	62,5

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
14 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p130	2011-05-11	MARY	2,0
14 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p130	2011-05-11	MARY	25,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
14 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	0,25
14 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	2,5

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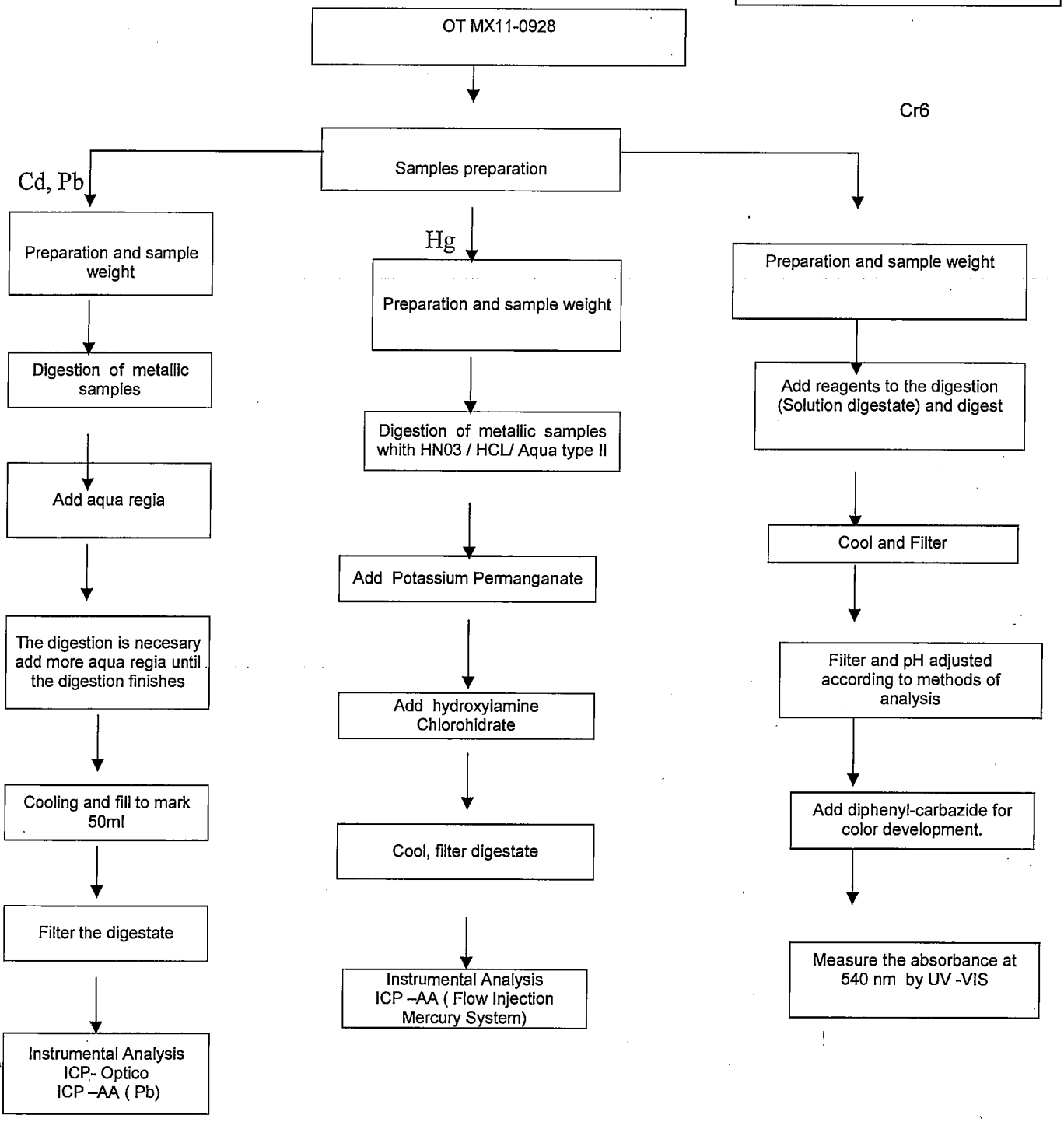
Report No.: MX11-0928-14
Date: 2011-06-16

Metallic samples
Flow chart for sample: 14



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Report No.: MX11-0928-12
Date：2011-06-16

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.	12) N/P 01000056Z
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2011-05-05
Testing period	2011-05-09 to 2011-05-13

****

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
12 (Base)	N/P 01000056Z	Pass See Result summary	---	---
12 (Plated)	N/P 01000056Z	Pass See Result summary	---	---

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TEST CONDUCTED

Samples:

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12) Base N/P 01000056Z
12) Plated N/P 01000056Z

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(12) Base	(12) Plated	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	104,0	ND	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.
µg/cm^2 = microgram per square centimeter.
mg/kg WITH 50cm^2 = milligram per kilogram with 50 square centimeter.
< = less than.
ND = Not detected.
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Prepared and checked by：
For Intertek

Laboratory Manager

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REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX11-0928-12 WERE TESTED SEPARATED.

Test method：

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Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo
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Report No.: MX11-0928-12
Date：2011-06-16

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
12	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
12 (Base)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	5,0
12 (Plated)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	62,5

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
12 (Base)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	2,0
12 (Plated)	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-40p129	2011-05-11	MARY	25,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
12 (Base)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	0,25
12 (Plated)	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-40p126	2011-05-10	RNC	2,5

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