Würth Elektronik

RoHS-Cover Sheet

Würth Elektronik eiSos GmbH & Co.KG
EMC & Inductive Solutions
Total Quality Managment
Ms.Sherry Li/Mr. Thorsten Gehrke/Mr. Yangyang Chen
Max-Eyth-Str.1;

74638 Waldenburg

Conclusion for the test report No. NTEK-SZR201610271002101 dated Nov. 03, 2016

Overall Conclusion according to RoHS
[×] PASSED [ ] FAILED

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The following sample was tested according to RoHS Directive 2011/65/EU and amendment (EU) 2015/863.

Sample Description:	**Item Name Wuerth:**	**WR-TBL2_PA66 Green_6912XXXX00XX**
	Item No. Wuerth:	**691211720002**
	Lot No Wuerth:	**222000101544000**
	Date Code Wuerth:	**20151026**

Sample received date: Oct. 28, 2016

Test period: Oct. 28, 2016~ Nov. 03, 2016

Conclusion:

Test sample(s)	Standard	Result
Screening components of submitted samples	**Screening by XRF spectroscopy and chemical confirmation test for RoHS directive 2011/65/EU and amendment (EU) 2015/863**	**Pass**

******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)******

Tested by: _____ Reviewed by: _____

Approved by: _____ Date: 2016-11-03

Shenzhen NTEK Testing Technology Co., Ltd.
Address: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R.China
Tel: +86-755-6115 6588 Fax: +86-755-6115 6599 http://www.ntek.org.cn

Sample Description:

Item Name Wuerth: **WR-TBL2_PA66 Green_6912XXXX00XX**
Item No. Wuerth: **691211720002**
Lot No Wuerth: **222000101544000**
Date Code Wuerth: **20151026**

Component Description:

Component No.	Part No.	Material	Description
161027005-001	1	Non metal	Green plastic shell
161027005-002	2	Metal	Silvery metal block
161027005-003	3	Metal	Silvery metal screw
161027005-004	4	Metal	Silvery metal pin

Photograph(s) of Sample(s):

Overview

Part No.1

Part No.2

Part No.3

Part No.4

Sample Description: **Item Name Wuerth: WR-TBL2_PA66 Green_6912XXXX00XX**
Item No. Wuerth: 691211720002
Lot No Wuerth: 222000101544000
Date Code Wuerth: 20151026

Test method:

With reference to IEC62321-3-1:2013 Ed1.0 screening-Lead, mercury, cadmium, Chromium(Cr) and Bromine, then chemical test confirmation reference to the following method.

Test Item	Pretreatment method	Test instrument	MDL
Lead (Pb)	IEC 62321-5:2013 Ed.1.0 section7	ICP-OES/AES	2 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0 section7	ICP-OES/AES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0 section7	ICP-OES	2 mg/kg
Chromium(Ⅵ) (Cr6+)**	IEC 62321-7-1:2015 Ed.1.0	UV-VIS	/
Chromium(Ⅵ) (Cr6+)	IEC 62321:2008 Ed.1.0 Annex C	UV-VIS	2 mg/kg
PBBs/PBDEs	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg
DBP	Refer to EN 14372:2004	GC-MS	30 mg/kg
BBP	Refer to EN 14372:2004	GC-MS	30 mg/kg
DEHP	Refer to EN 14372:2004	GC-MS	30 mg/kg
DIBP	Refer to EN 14372:2004	GC-MS	50 mg/kg

- ** Boiling water extraction

Test Item	MDL（μg/cm^2）	Cr^{6+}concentration （μg/cm^2）	Result
Cr^{6+}	0.02	<0.10	Negative
		0.10~0.13	Inconclusive
		>0.13	Positive

- Storage conditions and production date of the tested sample are unavailable and thus results of Cr(Ⅵ) represent status of the sample at the time of testing.

Sample Description: **Item Name Wuerth: WR-TBL2_PA66 Green_6912XXXX00XX**
Item No. Wuerth: 691211720002
Lot No Wuerth: 222000101544000
Date Code Wuerth: 20151026

Test Results:

Component No.	Test item	Limits(mg/kg)	Test results(mg/kg)	Remark
161027005-001 (Green plastic shell)	Pb	1000	N.D.	---
	Cd	100	N.D.	
	Hg	1000	N.D.	
	Cr^{6+}	1000	N.D.	
	PBBs	1000	N.D.	
	PBDEs	1000	N.D.	
	DBP	1000	N.D.	
	BBP	1000	N.D.	
	DEHP	1000	N.D.	
	DIBP	1000	N.D.	
161027005-002 (Silvery metal block)	Pb	1000	26592[a]	"a" denotes the exempt item according to Directive 2011/65/EU Annex III 6(c) "copper alloy containing up to 4% lead by weight".
	Cd	100	10	
	Hg	1000	N.D.	
	Cr^{6+}	1000	Negative	
	PBBs	1000	N.A.	
	PBDEs	1000	N.A.	
	DBP	1000	N.A.	
	BBP	1000	N.A.	
	DEHP	1000	N.A.	
	DIBP	1000	N.A.	
161027005-003 (Silvery metal screw)	Pb	1000	N.D.	---
	Cd	100	N.D.	
	Hg	1000	N.D.	
	Cr^{6+}	1000	Negative	
	PBBs	1000	N.A.	
	PBDEs	1000	N.A.	
	DBP	1000	N.A.	
	BBP	1000	N.A.	
	DEHP	1000	N.A.	
	DIBP	1000	N.A.	

Sample Description: **Item Name Wuerth: WR-TBL2_PA66 Green_6912XXXX00XX**
Item No. Wuerth: 691211720002
Lot No Wuerth: 222000101544000
Date Code Wuerth: 20151026

Component No.	Test item	Limits(mg/kg)	Test results(mg/kg)	Remark
161027005-004 (Silvery metal pin)	Pb	1000	54	---
	Cd	100	N.D.	
	Hg	1000	N.D.	
	Cr^{6+}	1000	Negative	
	PBBs	1000	N.A.	
	PBDEs	1000	N.A.	
	DBP	1000	N.A.	
	BBP	1000	N.A.	
	DEHP	1000	N.A.	
	DIBP	1000	N.A.	

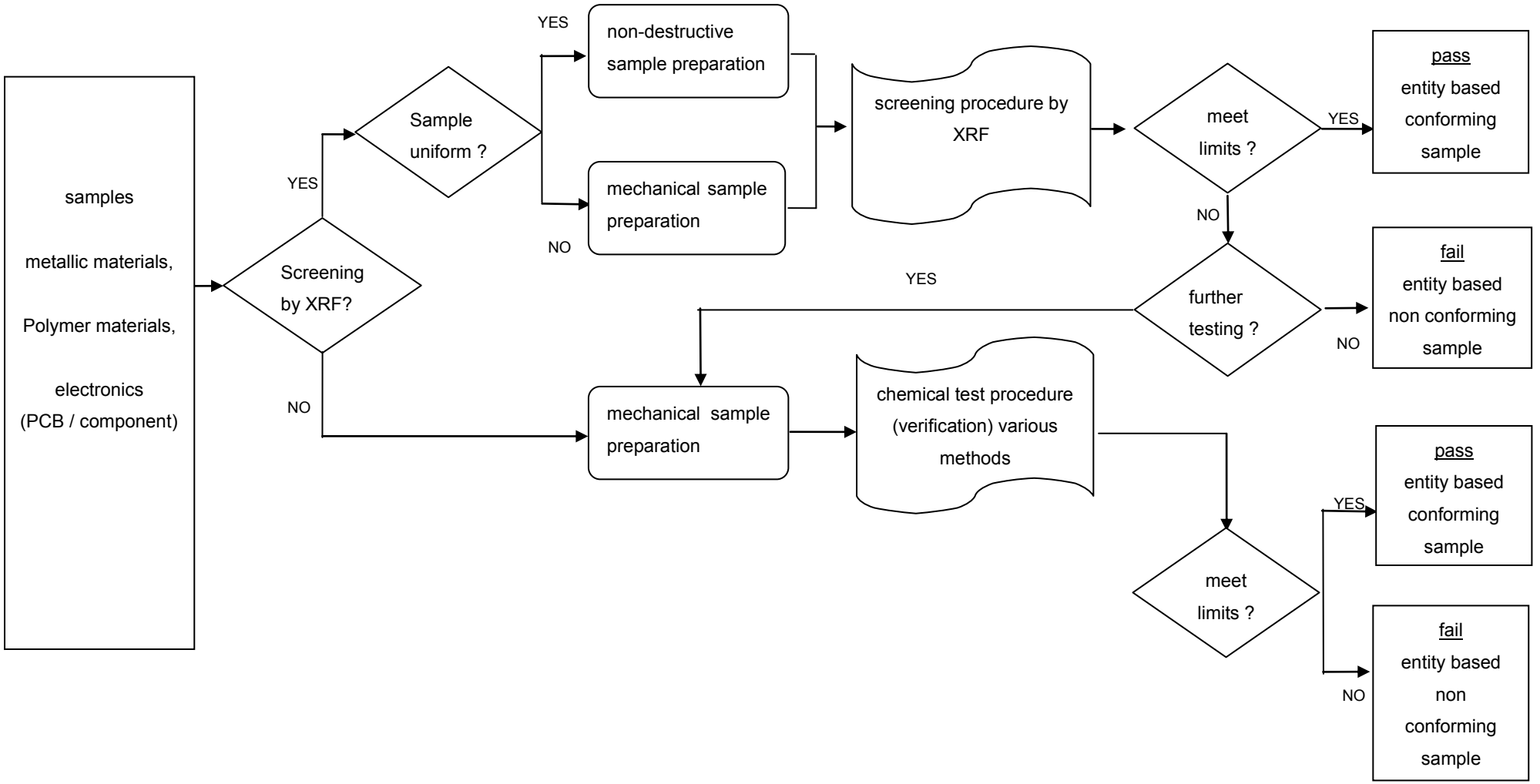
Remark:
- mg/kg =ppm= parts per million
- N.D.=Not Detected(<MDL)
- MDL=Method Detection Limit
- N.A.=Not Applicable

RoHS Requirement

Restricted substances	Limits
Lead (Pb)	0.1% (1000 ppm)
Cadmium (Cd)	0.01% (100 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium(Ⅵ) (Cr^{6+})	0.1% (1000 ppm)
Polybrominated biphenyla(PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)
Dibutyl Phthalate(DBP)	0.1% (1000 ppm)
Benzylbutyl Phthalate(BBP)	0.1% (1000 ppm)
Bis-(2-ethylhecyl) Phthalate(DEHP)	0.1% (1000 ppm)
Diisobutyl Phthalate(DIBP)	0.1% (1000 ppm)

The above limits were quoted from 2011/65/EU and amendment (EU) 2015/863.

Flow chart



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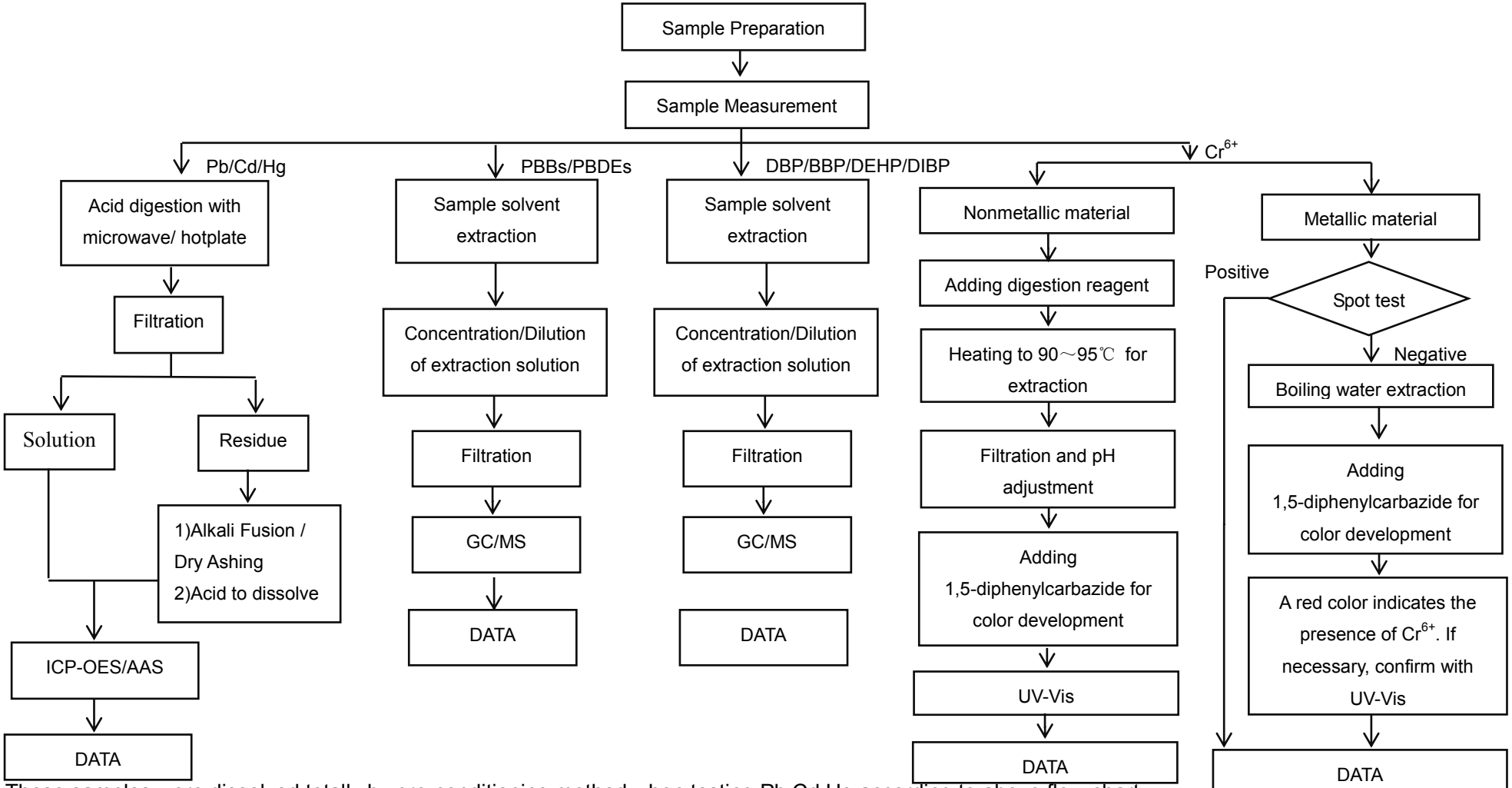
Cd/Pb/Hg/Cr^{6+}/PBBs/PBDEs/DBP/BBP/DEHP/DIBP chemical test Flow Chart



Note: These samples were dissolved totally by pre-conditioning method when testing Pb,Cd,Hg according to above flow chart

End of Report

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