



Test Report

NO.: ASZ0804020501C

Date: Apr 12, 2008

Page 1 of 8

Customer: ELMARK INDUSTRIES SC

Address: 2 "DOBRUDJA" BOULEVARD DOBRICH, BULGARIA

Report on the submitted sample said to be

Sample name: AC CONTACTOR

Model: LT1-D09, 12, 18, 25, 32, 40, 50, 65, 80, 95

Item/Lot No.: /

Material: /

Buyer: /

Supplier: /

Manufacturer: /

Sample received date: Apr 02, 2008

Testing period: From Apr 02, 2008 to Apr 07, 2008

Testing Requested

As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBB & PBDE content in the submitted sample in accordance with Directive 2002/95/EC (RoHS).

Testing method:

With reference to IEC 62321, 111/95/CDV

Testing Item	Pretreatment method	Measuring instrument	MQL
Lead (Pb)	IEC 62321, section 8/9	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321, section 8/9	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321, section 7	CV-AAS	2 mg/kg
Chromium (Cr VI)	IEC 62321, Annex B/C	UV-VIS	2 mg/kg 0.02 mg/kg*
PBBs/ PBDEs	IEC 62321, Annex A	GC-MS	5 mg/kg

Note:

- * 0.02 mg/kg refers to the MQL of sample extraction liquid.

Conclusion:

-When tested as specified the submitted sample complied with the requirements of commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC

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

Signed for AOV Ltd.

Written by

Inspected by

Approved by

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AOV Testing Technology Co., Ltd.

Add: AOV building, Xueyuan Road East, university city, Shenzhen (Tanglang Village, Xili Town, Nanshan District)
Tel: +86(0)755 8600 8000 Fax: +86(0)755 8600 8282 Http: //www.aovt.com

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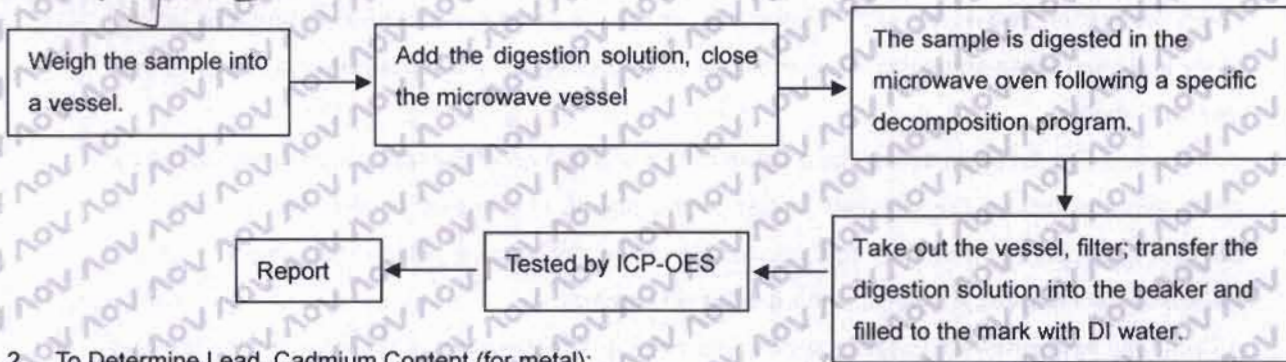
Date: Apr 12, 2008

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Test Flow:

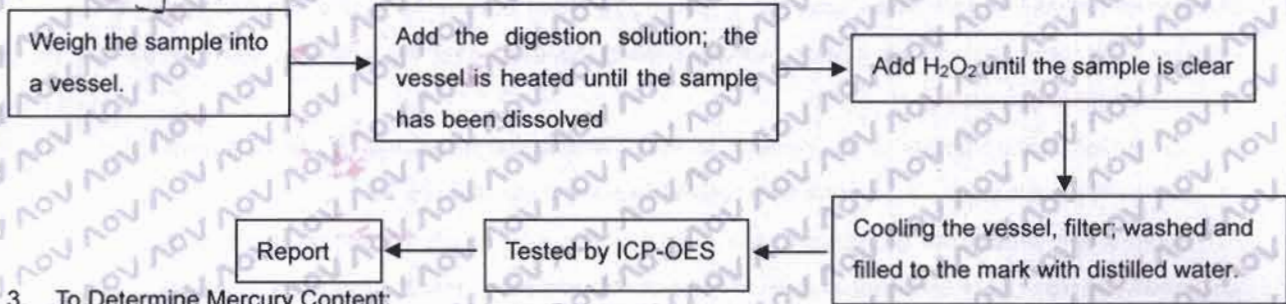
1. To Determine Lead, Cadmium Content (for Polymer):

Tested by: *Jure*



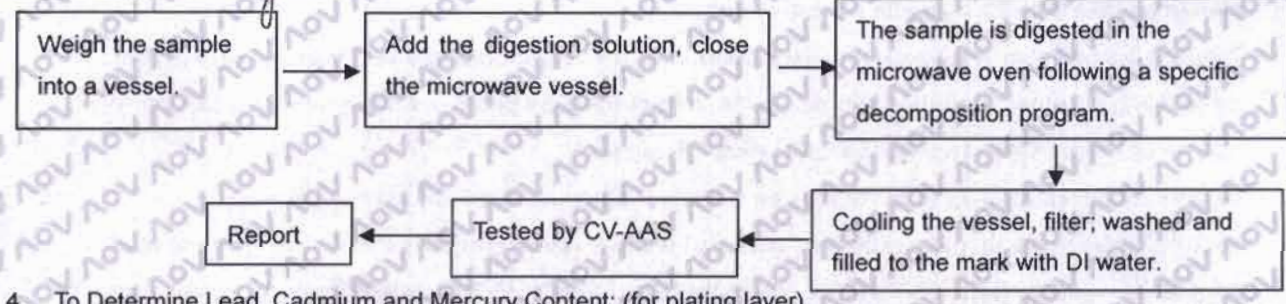
2. To Determine Lead, Cadmium Content (for metal):

Tested by: *Jure*



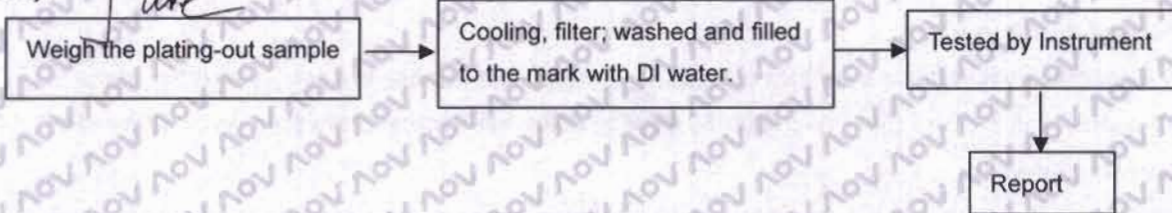
3. To Determine Mercury Content:

Tested by: *Rosamy*



4. To Determine Lead, Cadmium and Mercury Content: (for plating layer)

Tested by: *Jure*

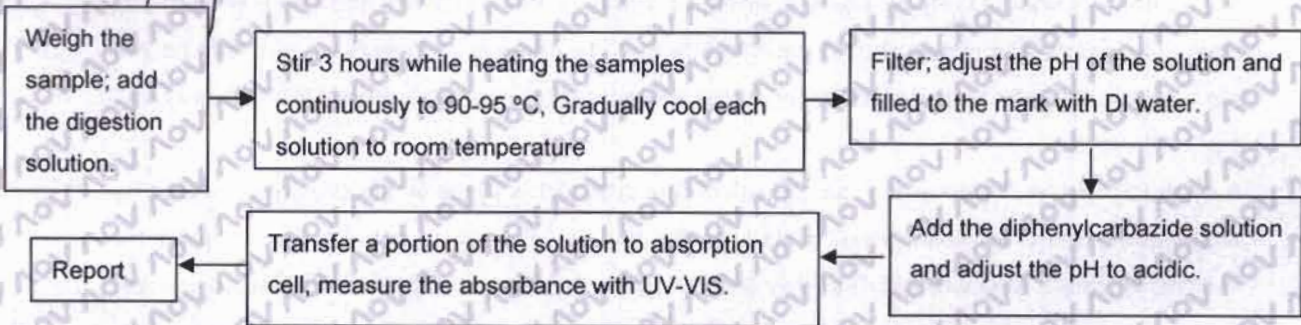


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5. To Determine Hexavalent Chromium Content (for Polymer):

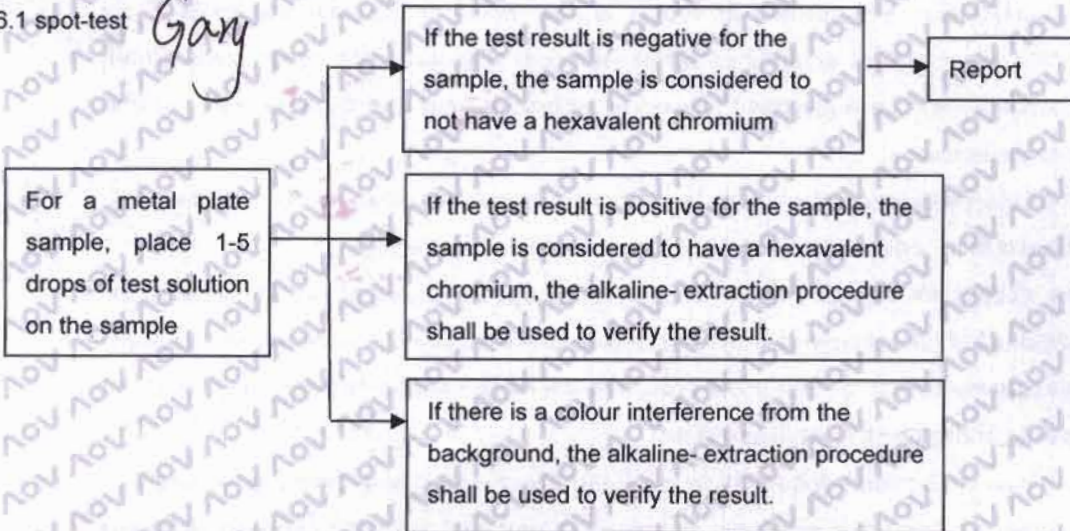
Tested by: *Gany*



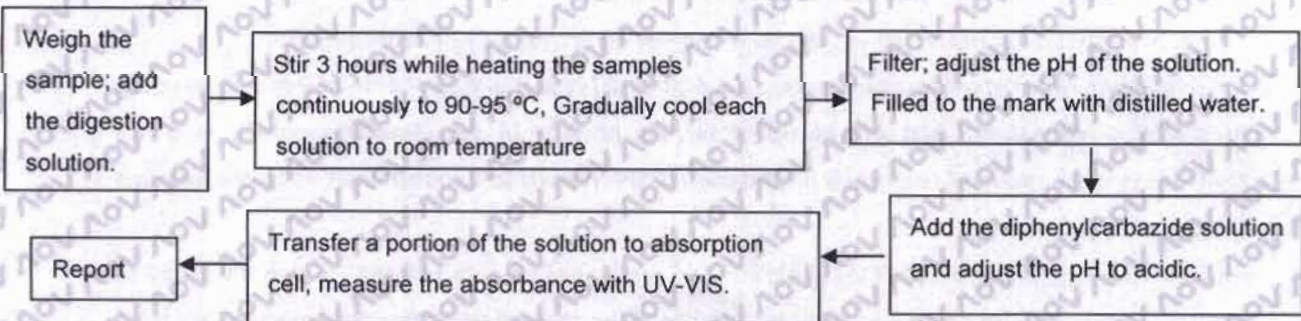
6. To Determine Hexavalent Chromium Content in metals:

Tested by:

6.1 spot-test *Gany*



6.2 alkaline- extraction Method



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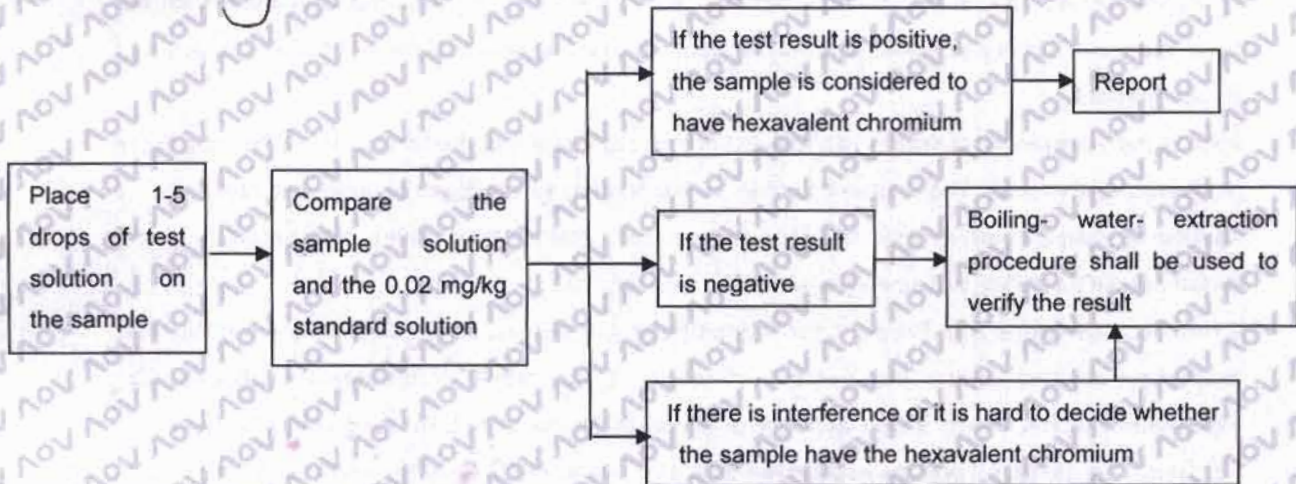


7. To Determine Hexavalent Chromium Content in colorless and colored chromate coating on metals:

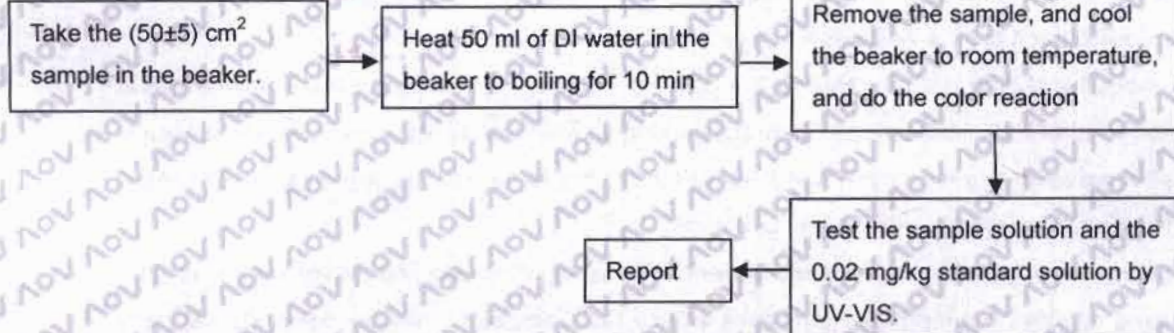
Tested by:

7.1 spot-test

Gany



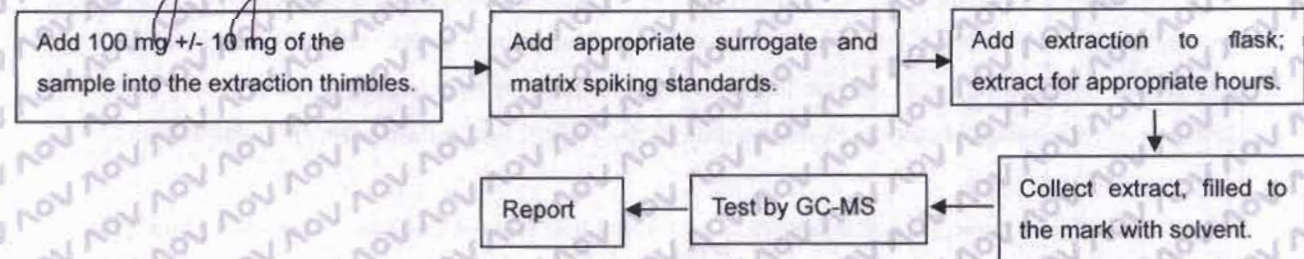
7.2 boiling- water- extraction



8. To Determine PBBs/PBDEs Content:

Tested by:

Young



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Test Results:

Item	Unit	RoHS Limit	1	2	3	4	5	6
Lead (Pb)	mg/kg	1000	5.0	23.6	N.D.	4.5	N.D.	N.D.
Cadmium (Cd)	mg/kg	100	2.9	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(CrVI) by spot test	/	/	/	Negative	/	/	/	/
Chromium(CrVI) by boiling water extraction	/	/	/	/	/	/	/	/
Chromium (CrVI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Item	Unit	RoHS Limit	7	8**	9	10	11
Lead (Pb)	mg/kg	1000	3.4	125.4	26.9	N.D.	27.5
Cadmium (Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(CrVI) by spot test	/	/	Negative	Negative	Negative	Negative	Negative
Chromium(CrVI) by boiling water extraction	/	/	/	/	/	Negative	/
Chromium (CrVI)	mg/kg	1000	N.D.	N.D.	N.D.	/	N.D.

Item	Unit	RoHS Limit	12	13	14	15	16
Lead (Pb)	mg/kg	1000	112.4	17.6	31.8	N.D.	25.2
Cadmium (Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(CrVI) by spot test	/	/	Negative	Negative	Negative	Negative	Negative
Chromium(CrVI) by boiling water extraction	/	/	/	/	Negative	Negative	/
Chromium (CrVI)	mg/kg	1000	N.D.	N.D.	/	/	N.D.

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Flame Retardants	Unit	RoHS Limit	1	3	4	5	6
PBBs	mg/kg	1000	--	--	--	--	--
MonoBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
DiBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
TriBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
TetraBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
PentaBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
HexaBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
HeptaBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
OctaBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
NonaBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
DecaBB	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	mg/kg	1000	--	--	--	--	--
MonoBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
DiBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
TriBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
TetraBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
PentaBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
HexaBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
HeptaBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
OctaBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
NonaBDE	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
DecaBDE	mg/kg	/	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*

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Specimen Description:

No.	Sample name	Material
1	Upper and nether crust	/
2	Iron core	/
3	Junction cover board	/
4	Tablet	/
5	Move bracket	/
6	Loop framework	/
7	Loop	/
8**	Touch point	/
9	Junction board	/
10	Junction board plating layer	zincification
11	Iron core spring	/
12	Touch head bracket	/
13	Junction screw	/
14	Screw plating layer	zincification
15	Electric board plating layer	zincification
16	Electric board	/

Note:

-Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.

-mg/kg=ppm

- N.D.=not detected(<MQL)

- MQL=Method Quantitation Limit

- Spot-test:

Negative=Absence of Cr(VI);

-(Deca BDE) In polymeric applications is exempted by commission Decision of 13 Oct 2005 amending directive 2002/95/EC notified under document 2005/717/EC

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is uncertain or negative.)

-**The admixture of specimen 8 is tested as a whole (part) which according to the applicant's request, the result of report as a average value because of the whole specimen is regarded as constituting from the homogeneous material. If according to the provision of RoHS, the testing of specimen 8 may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.

- Photo is included

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Photographs of Samples



AC CONTACTOR

End of Report

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