

Specification for Approval

緯穎料號

Wiwynn Part No. :34.64W15.001

Description :SPG PUSH HINGE SPRING 6 HU230

廠商型號

Vendor Model No. :34.64W15.001

Description :SPG PUSH HINGE SPRING 6 HU230

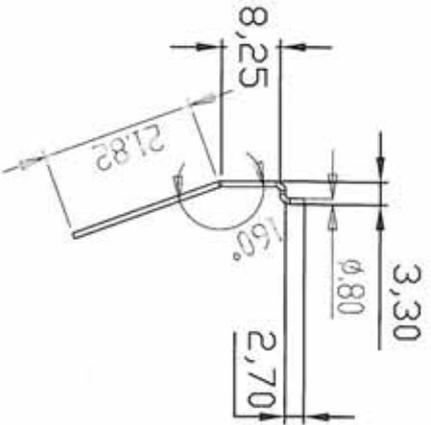
Issued Date :2012-12-30

Approved Date :2012-12-30



Approved by (Wiwynn)	Approved by (vendor)	Prepared by (vendor)
Suki Hsu		關超
2012-12-30	2012-12-30	2012-12-30

ITEM	PART NO.	PART NAME	RAW MTL. CLDR	ARTWRK	MATERIAL	FINISH PROCESS	FINISH CD. DR.
1	34.64W15.001	HINGE_PUSH_SPRING	NONE	NONE	SUS304	NONE	NONE



SCALE: 3:1

SIZE	ID.													
	M1	M2	S1	S2	P1	P2	C	QMS						
6-1	0.05	0.10	0.15	0.20	0.25	0.10	0.15	0.20	0.25	0.10	0.15	0.20	0.25	
6-30	0.10	0.20	0.15	0.25	0.10	0.15	0.20	0.25	0.10	0.15	0.20	0.25	0.10	0.15
30-120	0.15	0.25	0.20	0.30	0.20	0.40	0.30	0.40	0.20	0.40	0.30	0.40	0.20	0.30
120-300	0.15	0.30	0.25	0.45	0.40	0.80	0.60	0.80	0.40	0.80	0.60	0.80	0.40	0.60
300-1000	0.20	0.35	0.40	0.60	0.60	1.20	0.80	1.20	0.60	1.20	0.80	1.20	0.60	0.80
600-1200	0.25	0.40	0.45	0.70	0.70	1.50	1.00	1.50	0.80	1.50	1.00	1.50	0.80	1.00

MODEL		NAME	
KNDX		HINGE_PUSH_SPRING	
DRN	Suki Hsu	10/7/09	
DSN	Suki Hsu	10/7/09	
CKD	CH Hsieh	10/7/09	
APPD	CH Hsieh	10/7/09	
MATERIAL		FINISH	
SUS304		NONE	
D=0.8mm			

REV.	DESCRIPTION	SIGN	DATE
1			

DRAWING NO: CD 34.64W15.0X1

華志彈簧五金有限公司

HWA JYH SPRING METAL CO.,LTD.

樣品檢討/承認書

APPROVAL SHEET

客戶
 CUSTOMER: 緯穎
 機種
 MODEL: KNOX
 品名
 PART NAME: SPG PUSH HINGE SPRING 6 HU230
 料號
 PART NO: 34.64W15.001
 材質
 MATERIAL: SUS304
 色澤
 FINISH: 本色

NO.
 DATE: 2012-12-30

檢驗量具代號 INSPECTION GAUGES

- 1.游標卡尺Vernier caliper
- 2.分厘卡Micrometer
- 3.捲尺Measuring Tape
- 4.治具Fixture
- 5.拉壓力測試機Spring force tester
- 6.扭力荷重機Torque tester
- 7.塞規/圓棒Pin gauge
- 8.高度規Height gauge
- 9.投影機Projector
- 10.硬度計Hardness tester
- 11.目視Visual
- 12.其他Others

NO.	Inspection Subject 檢查項目	Spec.&Tolerance 規格/公差	Gauge Code 測量工具	Check Data 測量數據					Result 判定結果
				1	2	3	4	5	
1	線徑 WIRE DIA	0.80±0.05	2	0.800	0.797	0.800	0.798	0.800	OK
2	外徑 OUT DIA								
3	圈數 NO.OF COIL								
4	捲向 COIL DIR								
5	寸法	21.82±0.25	9	21.77	21.80	21.83	21.85	21.82	OK
6	寸法	8.25±0.20	9	8.23	8.27	8.24	8.2	8.23	OK
7	寸法	3.30±0.20	9	3.35	3.32	3.36	3.30	3.34	OK
8	寸法	2.70±0.20	9	2.67	2.70	2.73	2.65	2.72	OK
9	角度	160°±3°	9	162.13°	162°	162.42°	162.15°	162.37°	OK



Note 備註:

SUPERVISOR	QC
肖滿璋	關超



KOS WIRE LTD.

567, OCK-MYUNG, NAMDAESONG, POHANG, KYUNGSANGBUK-DO, KOREA
 TEL : (054) 278-6083 FAX : (054) 278-6086
 E-mail : kosc@koswire.com

Inspection Certificate

DATE OF ISSUE: 2012-01-31

DESCRIPTION	STAINLESS STEEL WIRE FOR SPRING (WPB)		
MILL CERT.NO.	CC3-201201A-0213	GRADE	AISI 304
P.O NO.	12-005	DIAMETER	0.800 mm
INVOICE NO.	H11C036/02 (H12I037-18)	FINISH	DU SS-CO (COIL)
CONTRACTOR	EMPEROR RESOURCES INTERNATIONAL LIMITE	QUANTITY	4,792.0 KGS (81 COILS)
CUSTOMER	EMPEROR RESOURCES INTERNATIONAL LIMITE	APP. SPEC	JIS G 4314

CHEMICAL COMPOSITION

(wt%)

COMPONENT CH.NO.								
	Min	C	Si	Mn	P	S	Ni	Cr
KFOX00297	Max	0.0000	0.0000	0.0000	0.0000	0.0000	8.0000	18.0000
		0.0800	1.0000	2.0000	0.0450	0.0300	10.5000	20.0000
		0.0650	0.4200	1.0740	0.0350	0.0041	8.3690	18.1290

INSPECTION RESULTS

ITEMS COIL NO.	SIZE	T/S	CAST HELIX	LOT NO.	REMARK
	(mm)	(N/mm ²)	() () () ()		
	+0.010	2100.0			
	-0.010	1850.0			
1	0.794	1985.5	GOOD	ID1211-20117-0001	KFOX00297
2	0.794	1930.3	GOOD	ID1211-20117-0002	
3	0.794	1982.0	GOOD	ID1211-20117-0003	
4	0.794	1936.0	GOOD	ID1211-20117-0004	
5	0.794	1976.0	GOOD	ID1211-20117-0005	
6	0.794	1972.0	GOOD	ID1211-20117-0006	
7	0.794	1931.6	GOOD	ID1211-20117-0007	
8	0.794	1939.8	GOOD	ID1211-20117-0008	
9	0.794	1923.9	GOOD	ID1211-20117-0009	
10	0.794	1911.1	GOOD	ID1211-20117-0010	
11	0.794	1955.7	GOOD	ID1211-20117-0011	
12	0.794	1922.7	GOOD	ID1211-20117-0012	
13	0.794	1950.0	GOOD	ID1211-20117-0013	
14	0.794	1936.6	GOOD	ID1211-20117-0014	
15	0.794	1948.5	GOOD	ID1211-20117-0015	

KOS WIRE LTD.
S. P. Hong
 MANAGING DIRECTOR S. P. HONG




REMARKS
 D/A CONT. NO : KWS0359/12

We hereby certify that the material described herein has been made in accordance with the specification of the order.

J. A. PARK

MANAGER OF Q.C Dept.

CONTINUE



Test Report No. F690101/LF-CTSAYAU12-03747

Issued Date: 2012. 07. 18 Page 1 of 4

To: KOS LTD.
131-1,
Yusan-dong,
Yangsan-gu,
Gyeongnam
Korea

The following merchandise was submitted and identified by the client as :

SGS File No. : AYAU12-03747
Product Name : Stainless Steel Wire 304
Item No./Part No. : N/A
Received Date : 2012. 07. 12
Test Period : 2012. 07. 13 to 2012. 07. 18
Test Results : For further details, please refer to following page(s)
Test Performed : SGS Korea tested the sample(s) selected by applicant with following results.
Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

SGS Korea Co. Ltd. / Gimhae Laboratory

Sharpless Park
Jonadan Lee
Taehee Kang
Jongsir Lim/Testing Person

Thomas Hwang / Gimhae Lab. Mgr



This document is issued by the Company subject to its General Conditions of Service printed hereof, available on request or accessible at <http://www.sgs.com/en/TermsandConditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Sample No. : AYAU12-03747.001
 Sample Description : Stainless Steel Wire 304
 Item No./Part No. : N/A
 Materials : Stainless Steel

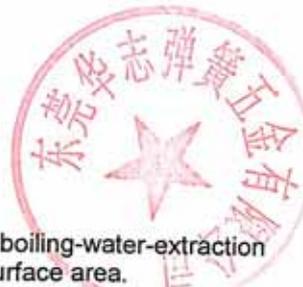
Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	1	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI) By boiling water extraction*	**	With reference to IEC 62321:2008	-	Negative

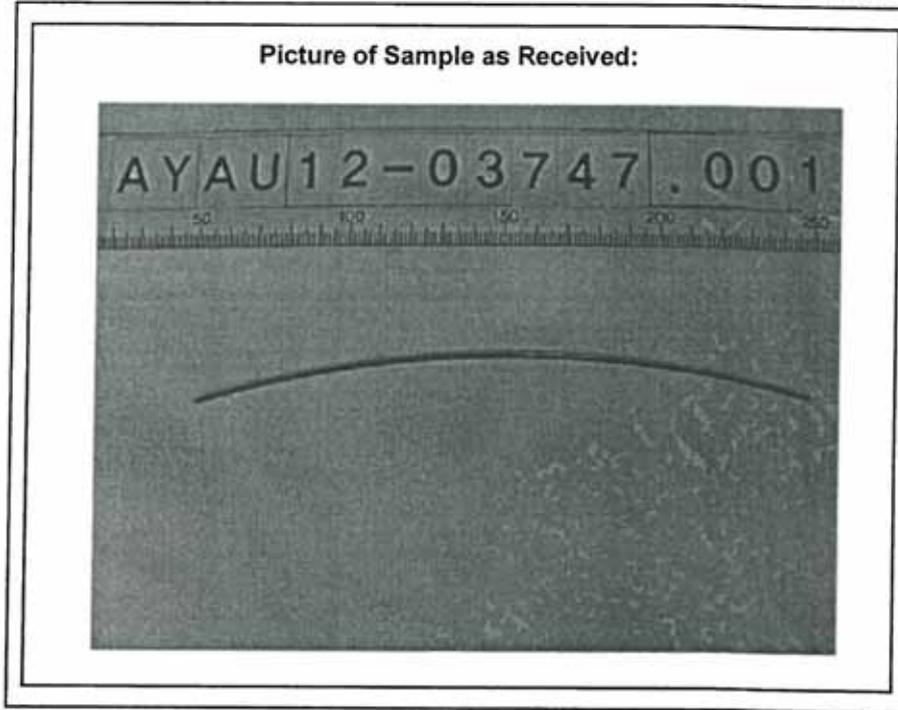
Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.

- NOTE: (1) N.D. = Not detected. (<MDL)
 (2) mg/kg = ppm
 (3) MDL = Method Detection Limit
 (4) - = No regulation
 (5) Negative = Undetectable / Positive = Detectable
 (6) ** = Qualitative analysis (No Unit)
 (7) * = Boiling-water-extraction:
 Negative = Absence of CrVI coating
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

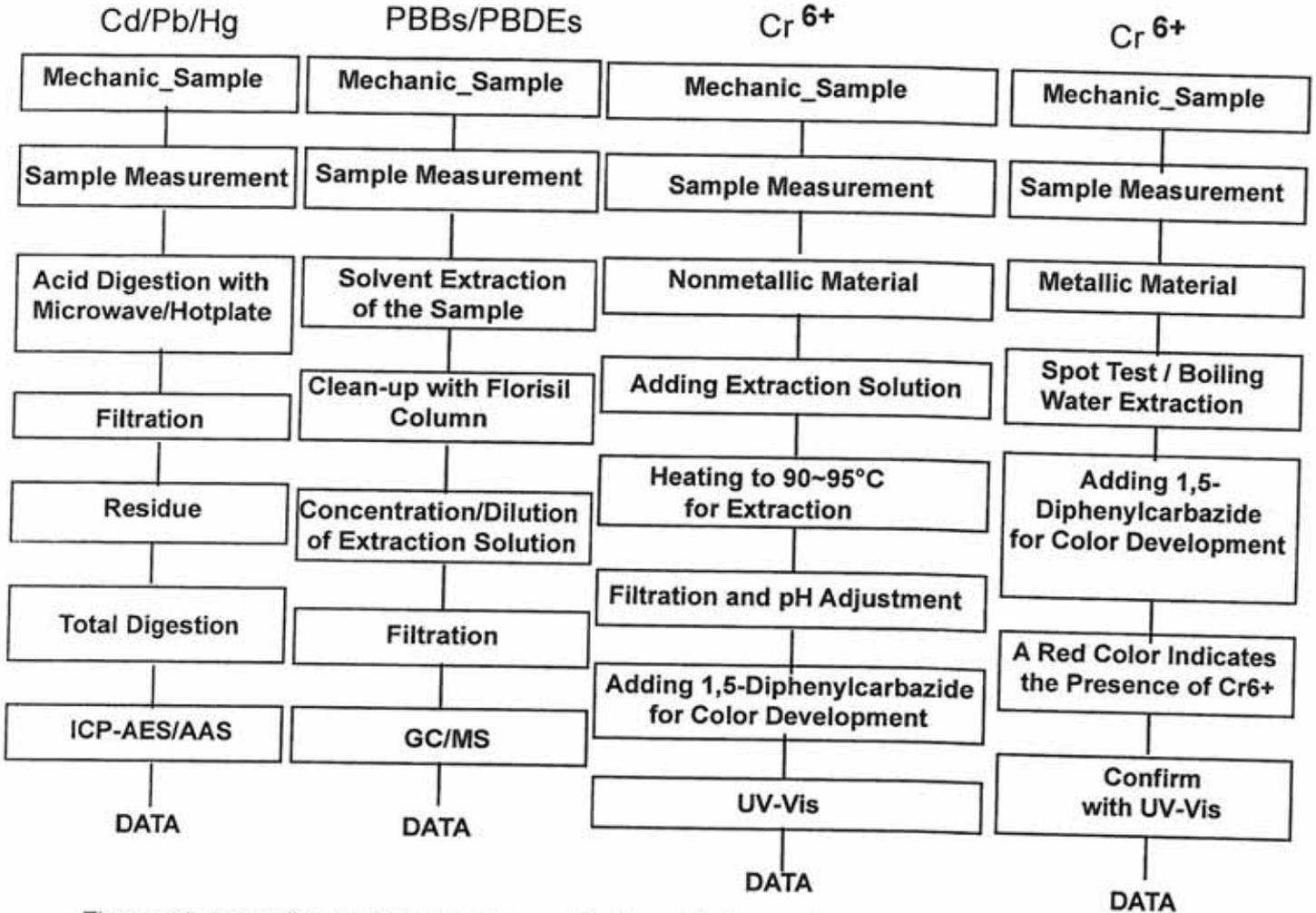


- NOTE: (1) N.D. = Not detected. (<MDL)
 (2) mg/kg = ppm
 (3) MDL = Method Detection Limit
 (4) - = No regulation
 (5) Negative = Undetectable / Positive = Detectable
 (6) ** = Qualitative analysis (No Unit)
 (7) * = Boiling-water-extraction:
 Negative = Absence of CrVI coating
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/terms-and-conditions.pdf> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/terms-and-conditions.pdf>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr⁶⁺ /PBBs&PBDEs Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.
Section Chief : Shapless Park

*** End ***

- NOTE:(1) N.D. = Not detected.(<MDL)
 (2) mg/kg = ppm
 (3) MDL = Method Detection Limit
 (4) - = No regulation
 (5) Negative = Undetectable / Positive = Detectable
 (6) ** = Qualitative analysis (No Unit)
 (7) * = Boiling-water-extraction:
 Negative = Absence of CrVI coating
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

