

Specification for Approval

緯穎料號

Wiwynn Part No. :34.64W14.001

Description :SPG HINGE PUSH SPRING HU230

廠商型號

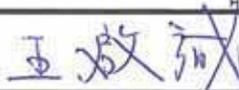
Vendor Model No. :34.64W14.001

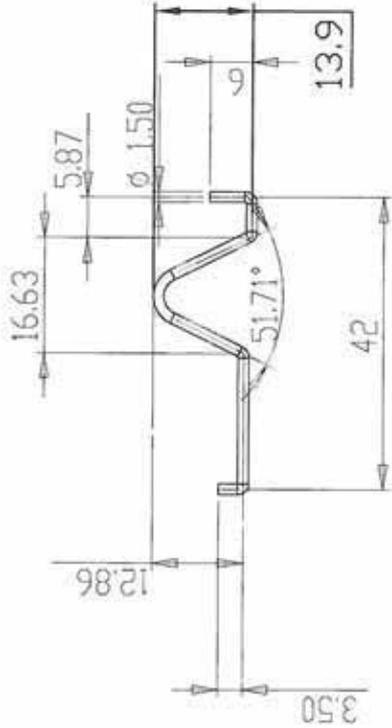
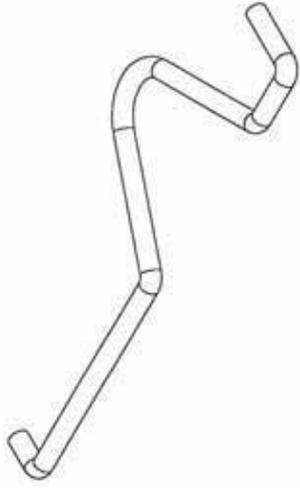
Description :SPG HINGE PUSH SPRING HU230

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	S/M MTL COLOR	ARTWORK	MATERIAL	FINISH PROCESS	FINISH COLOR
1	34.64W14.001	HINGE_PUSH_SPRING	NONE	NONE	SUS304	NONE	NONE

REV.	DESCRIPTION	SIGN	DATE	DWM	SHEET	DO NOT SCALE	SCALE	DIM IN	mm
DRAWING NO. CD 34.64W14.001									
NAME: HINGE_PUSH_SPRING									
MATERIAL: SUS304									
FINISH: NONE									
D=1.5mm									
Wiwynn corporation									
MODEL	KNOX	NAME							
DRN	Suki Hsu	10/09/2012							
DSN	Suki Hsu	10/09/2012							
CKD	CH Hsieh	10/09/2012							
APPD	CH Hsieh	10/09/2012							

FAI Data Sheet

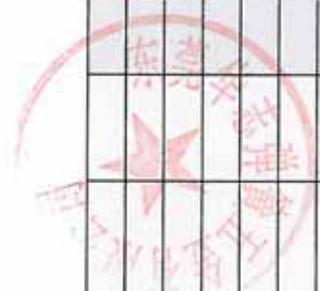
Drawing Number: 34.64W14.001
 Part Name: KNOX
 Revision:

Supplier: HWA JYH SPRING METAL CO.,LTD
 Submission No:
 Material Spec: SUS304 Ø1.5mm

Date: 2012-12-30
 Cavity / Tool #:
 Inspector: 謝啟

New:
 Revised: Suki Hsu
 Resubmission:

Item	Location	Nominal	Center	U deviation	L deviation	Inspection Results						Inspection Analysis				Inspection Method	Supplier Remarks	Engineering Disposition	
						Sample Number			Deviation from Center			Mean	% Tolerance		Acc/Rel				
						1	2	3	1	2	3		Upper	Lower	High				Low
1	線徑	1.50	1.50	0.05	-0.05	1.500	1.501	1.500	0.00	0.00	0.00	1.50	2%	0%			千分尺		
2	長度	3.50	3.50	0.30	-0.30	3.420	3.380	3.700	-0.08	-0.12	0.20	3.50	67%	40%	Alert		投影機		
3	長度	42.00	42.00	0.50	-0.50	42.10	42.31	41.84	0.10	0.31	-0.16	42.08	62%	32%			投影機		
4	長度	12.86	12.86	0.30	-0.30	12.90	13.00	12.70	0.04	0.14	-0.16	12.87	47%	53%			投影機		
5	長度	6.00	6.00	0.30	-0.30	6.08	5.84	5.92	0.08	-0.16	-0.08	5.95	27%	53%			投影機		
6	長度	5.87	5.87	0.30	-0.30	5.94	5.80	5.90	0.07	-0.07	0.03	5.88	23%	23%			投影機		
7	角度	51.71	51.71	3.00	-3.00	52.00	53.00	50.00	0.29	1.29	-1.71	51.67	43%	57%			投影機		
8	長度	16.63	16.63	0.50	-0.50	16.62	16.62	16.59	-0.01	-0.01	-0.04	16.61	0%	8%			投影機		
9	長度	13.90	13.90	0.30	-0.30	13.65	14.13	14.05	-0.25	0.23	0.15	13.94	77%	83%	Alert	Alert	投影機		



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 HINGE PUSH SPRING HU230
料 號
PART NO: 34.64W14.001
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	1.50=0.05	2	1.498	1.500	1.500	1.500	1.499	OK
2	外徑 OUT DIA								
3	圈數 NO.OF COIL								
4	捲向 COIL DIR								
5	寸法	3.50=0.30	9	3.42	3.38	3.70	3.52	3.49	OK
6	寸法	42.0=0.50	9	42.1	42.31	41.84	41.69	42.27	OK
7	寸法	12.86=0.30	9	12.90	13.00	12.70	12.94	12.91	OK
8	寸法	6.00=0.30	9	6.08	5.84	5.92	6.12	6.11	OK
9	寸法	5.87=0.30	9	5.94	5.90	5.80	5.69	6.00	OK
10	角度	51.71°±3°	9	52°	53°	50°	52°	53°	OK
11	寸法	16.63=0.50	9	16.62	16.62	16.59	16.49	17.00	OK
11	寸法	13.9=0.30	9	13.65	14.13	14.05	13.97	12.74	OK

Note 備註:

	SUPERVISOR	QC
	肖滿琢	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: 2011-04-30

DESCRIPTION	STAINLESS STEEL WIRE FOR SPRING (WPB)		
MILL CERT.NO.	CC3-201104A-0421	GRADE	AISI 304
P.O NO.	2011000014	DIAMETER	1.500 mm
INVOICE NO.	H108002/03 (H112017-16)	FINISH	DU SS-CO (COIL)
CONTRACTOR	TAILY HONG TRADING CO., LTD.	QUANTITY	524.2 KGS (9 COILS)
CUSTOMER	TAILY HONG TRADING CO., LTD.	APP. SPEC	JIS G 4314

CHEMICAL COMPOSITION

(wt%)

COMPONENT	C	Si	Mn	P	S	Ni	Cr						
								Min	Max				
CH.NO.	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						
KWSX01535	0.0750	0.4300	1.2600	0.0270	0.0010	8.3300	18.0300						

INSPECTION RESULTS

ITEMS	SIZE	T/S	CAST HELIX					LOT NO.	REMARK
	(mm)	(N/mm ²)	()	()	()	()			
COIL NO.	+0.015 -0.015	1900.0 1650.0							
1	1.494	1789.8	GOOD					ID1604-10308-0001 ID1604-10308-0002 ID1604-10308-0003 ID1604-10308-0004 ID1604-10308-0005 ID1604-10308-0006 ID1604-10308-0007 ID1604-10308-0008 ID1604-10308-0009	KWSX01535
2	1.494	1796.0	GOOD						
3	1.494	1800.5	GOOD						
4	1.494	1812.7	GOOD						
5	1.494	1795.8	GOOD						
6	1.494	1804.9	GOOD						
7	1.494	1793.3	GOOD						
8	1.494	1794.8	GOOD						
9	1.494	1813.0	GOOD						



REMARKS
L/C NO : DC KTG204801

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

MANAGER OF Q.C Dept.

END



Test Report No. F690101/LF-CTSAYAU12-03747

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

To: KOS LTD.
131-1,
Yusan-dong,
Yangsang-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 elsewhere, available on request or accessible at <http://www.sgs.com/terms-and-conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-documents. 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.



Test Report No. F690101/LF-CTSAYAU12-03747

Issued Date: 2012. 07. 18 Page 2 of 4

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:

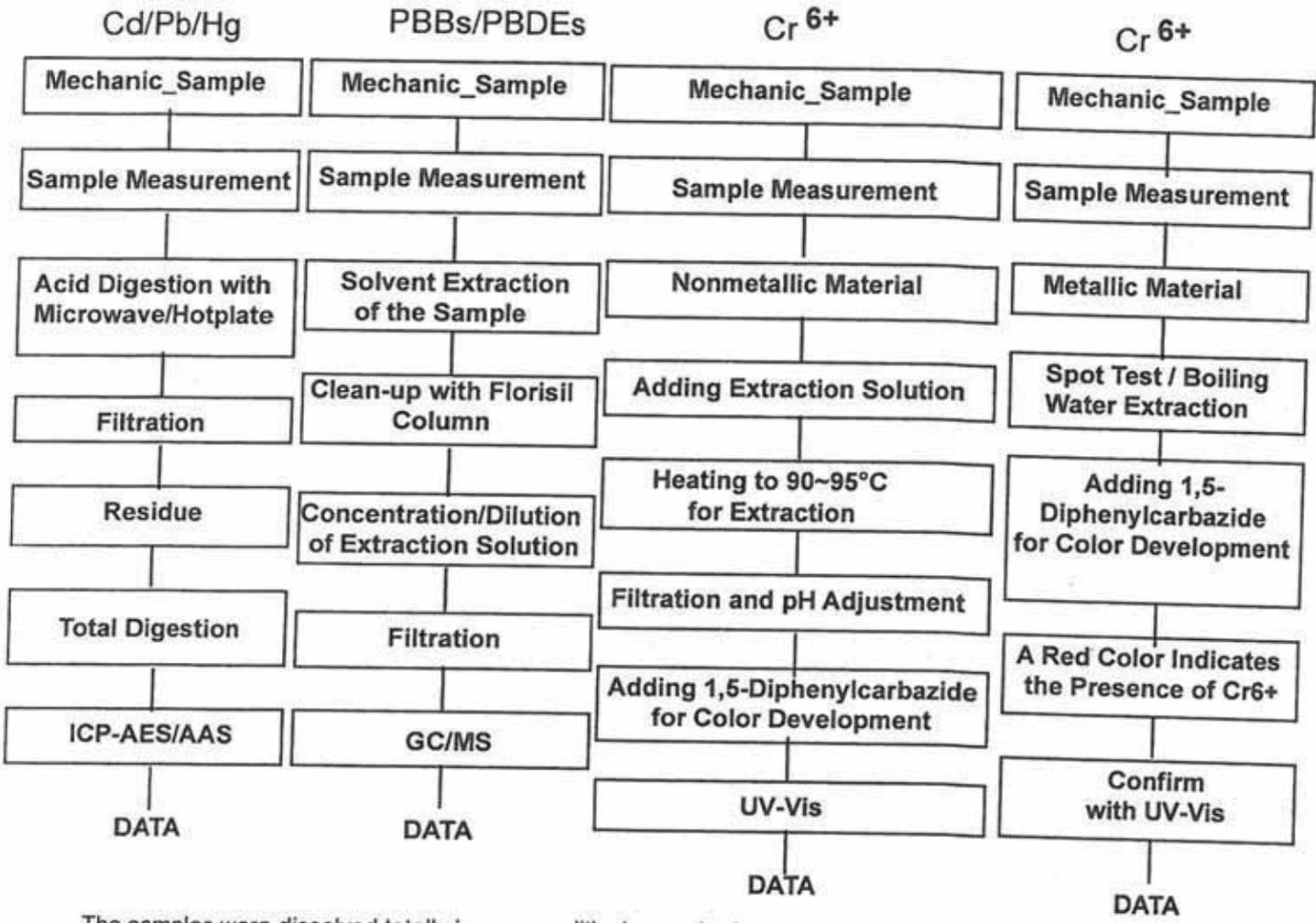
Negative = Absence of CrVI coating

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.sgslab.com/kr/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgslab.com/kr/e-document.html>. 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 error or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, reuse or other use of 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.



This document is issued by the Company subject to its General Conditions of Service printed hereafter, available on request or accessible at www.sgs.com and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses 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 or indication of the content or appearance of this document is unlawful and otherwise 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.