

<u>Material Test Reports - Insulated Terminals</u>

Materials test reports as supplied from our manufacturer/partner for Insulated Terminals, manufactured and tested to meet Cablecraft standards.



The Cablecraft Group of Companies

























Validity unknown For Question Please Co tact with SGS www.tw.sgs.com

測試報告 **Test Report**

號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 1 of 8

集勝端子股份有限公司

JEESOON TERMINALS CO., LTD.

504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

送樣廠商(Sample Submitted By)

黄色PVC (YELLOW PVC INSULATED TUBE)

: #733-YELLOW

: 2016/04/15

: 2016/04/15 TO 2016/04/21

: 集勝端子股份有限公司 (JEESOON TERMINALS CO., LTD.)

測試需求(Test Requested)

: (1) 依據客户指定,參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試 鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)

(2) 其他測試項目請見下一頁 . (Please refer to next pages for the other

: 請見下一頁 (Please refer to next pages).

根據客户所提供的樣品,其鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS指令暨(EU) 2015/863之限值要求. (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)

論(Conclusion)

測試結果(Test Results)

Ray Chang Ph.D. / Manag Signed for and on behalf of

SGS Taiwan Limited

Chemical Laboratory-Kaohsiung

t + 886 (07)301 2121

f + 886 (07)3010867

www.tw.sgs.com



號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 2 of 8

集勝端子股份有限公司 JEESOON TERMINALS CO., LTD. 504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

:

測試結果(Test Results)

測試部位(PART NAME) NO.1

黄色PVC (YELLOW PVC INSULATED TUBE)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1	法規 限値 (Limit)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價络 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	参考IEC 62321: 2008方法, 用UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n.d.	1000
多溴聯苯總和 / Sum of PBBs		參考IEC 62321-6: 2015方法,以氣相 層析/質譜儀檢測./ With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl]		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl			5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-
五溴聯苯 / Pentabromobiphenyl			5	n.d.	
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	1-1
九溴聯苯 / Nonabromobiphenyl			5	n.d.	-
十溴聯苯 / Decabromobiphenyl			5	n.d.	-

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company 脉非为有 (原理),此解作器规则为测量之程的反应。本稿件,来都还为用的种种。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms.and/ conditions.htm 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 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 fulley.

SCS Taiwan LLU

**No.61 Kai-Fa Road, Nanzih Expert Processing Zone, Kenbriung, Taiwan | Angel (27) 1992 | Ange

台灣檢驗科技股份有限公司

t + 886 (07)301 2121

f + 886 (07)3010867

www.tw.sgs.com



號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 3 of 8

集勝端子股份有限公司 JEESOON TERMINALS CO., LTD.

504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)。	方法偵測 極限値 (MDL)	結果 (Result) NO.1	法規 限値 (Limit)
多溴聯苯醚總和 / Sum of PBDEs		參考IEC 62321-6: 2015方法,以氣相層析/質譜儀檢測./ With reference to IEC 62321-6: 2015 and performed by GC/MS.		n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	, * =,
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	÷.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	- "
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)			50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)			50	n.d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117- 81-7)			50	n.d.	1000
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)			50	n.d.	-
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)			50	n.d.	. *- . *
鄰苯二甲酸二異癸酯 / DIDP (D♣isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)			50	n.d.	, -

台灣檢驗科技股份有限公司

f + 886 (07)3010867

www.tw.sgs.com



號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 4 of 8

集勝端子股份有限公司 JEESOON TERMINALS CO., LTD.

504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限値)
- 4. "-" = Not Regulated (無規格值)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company,除非少行說明,此報行結果從對測試之模品資金。本報行表報本公司、用值件可,不可部分投製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm 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 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 is 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 fulless extent of the law.

Set Taiwan Ltd.

**No.61, Kai-Fa Road, Nanzih Export Processing Zone, Koabsiung, Taiwan / Set Taiwan Ltd.

**No.61, Kai-Fa Road, Nanzih Export Processing Zone, Koabsiung, Taiwan / Set Taiwan Ltd.

**No.61, Kai-Fa Road, Nanzih Export Processing Zone, Koabsiung, Taiwan / Set Taiwan Ltd.

**No.61, Kai-Fa Road, Nanzih Export Processing Zone, Koabsiung, Taiwan / Set Taiwan Ltd.

**No.61, Kai-Fa Road, Nanzih Export Processing Zone, Koabsiung, Taiwan / Set Taiwan Ltd.

**No.61, Kai-Fa Road, Nanzih Export Processing Zone, Koabsiung, Taiwan / Set Taiwan Ltd.

**No.61, Kai-Fa Road, Nanzih Export Processing Zone, Koabsiung, Taiwan / Set Taiwan Ltd.

*

t + 886 (07)301 2121

www.tw.sgs.com

Member of the SGS Group

台灣檢驗科技股份有限公司

f + 886 (07)3010867



號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 5 of 8

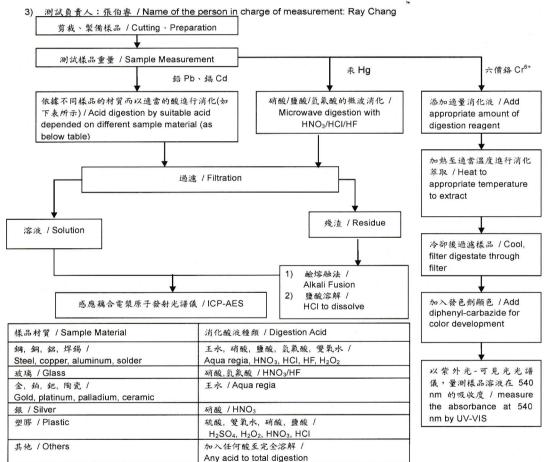
集勝端子股份有限公司

JEESOON TERMINALS CO., LTD.

504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6^+} test method excluded)
- 2) 测試人員:劉俊宏 / Name of the person who made measurement: Jony Liu



Note**: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.

(2) 針對金屬材料加入純水,加熱至沸騰萃取./For metallic material, add pure water and heat to boiling.

台灣檢驗科技股份有限公司

www.tw.sgs.com

t + 886 (07)301 2121

f + 886 (07)3010867



號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 6 of 8

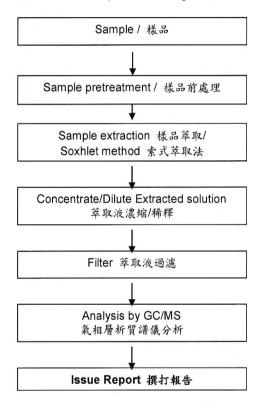
集勝端子股份有限公司 JEESOON TERMINALS CO., LTD.

504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)测試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company,除非少元原明,此稿气料规则为相赋之格品任任。本籍代来都本公司,如此许可,不可涉为规则。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm, 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 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 the transaction documents. This document cannot be reproduced ехсерситив. In Mulasser, and the law, appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law, significant substance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Talwan Ltd. No. 61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan J

台灣檢驗科技股份有限公司

t + 886 (07)301 2121

f + 886 (07)3010867

高雄市楠梓加工出口區開發路61號

www.tw.sgs.com Member of the SGS Group



號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 7 of 8

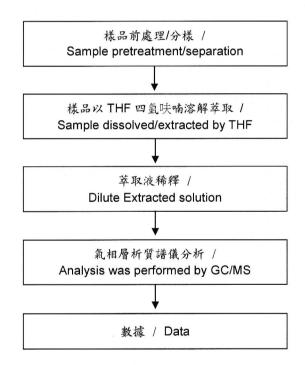
集勝端子股份有限公司 JEESOON TERMINALS CO., LTD. 504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang

【測試方法/Test method: IEC 62321-8】



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company,除非为行認明,此报行制果作到制度之格品宜宜。本保行未存本公司与证件下下,不可部分复要。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm 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 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 full-extent of the law.

SGS Taiwan Ltd.

**No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan / No.61.Kai-Fa Road, Nanzih Export Proce

台灣檢驗科技股份有限公司

t + 886 (07)301 2121

f + 886 (07)3010867

www.tw.sgs.com



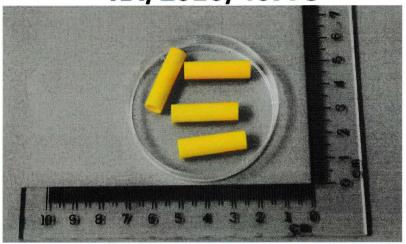
號碼(No.): KA/2016/40773 日期(Date): 2016/04/21 頁數(Page): 8 of 8

集勝端子股份有限公司 JEESOON TERMINALS CO., LTD. 504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2016/40773



** 報告結尾(End of Report) **

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company,除非少几说明,此被作体现代数侧成之核量负点。本核作未经本公司、印刷中间,不可部分投资。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm, and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm, and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm, and, for electronic Format documents, subject to Terms and Conditions.htm and, for electronic format documents, subject to Terms and Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm, and conditions.htm and, for electronic Format documents or 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 eccument parties on 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 full lest state and the limites of the advanced and the prior transaction of the content of the l

台灣檢驗科技股份有限公司