

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 1 of 14

富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號



NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

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

樣品名稱(Sample Description) : POLYMERIC POSITIVE TEMPERATURE COEFFICIENT THERMISTOR (RESETTABLE FUSE)
樣品型號(Style/Item No.) : DIP TYPE / FRX SERIES, FRK SERIES, FRX90V SERIES, FBR SERIES, FRU SERIES, FRT SERIES, FUSB SERIES, FRG SERIES, FHT SERIES, FRHV SERIES, FRH SERIES, FRVL SERIES, FRV SERIES, FRA SERIES
收件日期(Sample Receiving Date) : 2011/05/04
測試期間(Testing Period) : 2011/05/04 TO 2011/05/11

=====
測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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. 除非另有說明，此報告結果僅對測試的樣品負責。本報告未經本公司書面許可，不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 2 of 14

富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號



NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

測試樣品(Test Sample):

測試部位(PART NAME) No.1 : 整體混測 (MIXED ALL PARTS)

測試方法:

參照SGS內部方法RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, RSTS-EE-SVHC-006. 由感應耦合電漿原子發射光譜儀, 紫外光可見光譜儀, 氣相層析儀質譜儀, 液相層析質譜儀和氣相層析儀/火焰光度偵測器進行分析。(SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, RSTS-EE-SVHC-006. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS and GC/FPD.)

測試結果 (Test Results)

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
蒽 / Anthracene (CAS No.: 120-12-7)	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鄰苯二甲酸二(2-乙基己基)酯 / Bis (2- ethyl(hexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	%	n.d.	0.005	高持久性和高生物蓄積性物質 (vPvB)
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
三丁基錫氧化物 / Bis(tributyltin)oxide*** (CAS No.: 56-35-9)	%	n.d.	-	長期生物蓄積性及毒性物質 (PBT)

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. 除非另有說明, 此報告結果僅對測試的樣品負責。本報告未經本公司書面許可, 不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 3 of 14



富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	n.d.	0.01	長期生物蓄積性及毒性物質 (PBT)
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
三乙基砷酸酯 / Triethyl arsenate*** (CAS No.: 15606-95-8)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
砷酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 7784-40-9)	%	n.d.	-	致癌物質 類別 1; 對生殖系統有害 類別1 (Carcinogen Category 1; Toxic to Reproduction Category 1)
鉻酸鈉 / Sodium chromate*** (CAS No.: 7775-11-3)	%	n.d.	-	致癌第二類; 致突變第二類; 繁殖力毒性第二類 (Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2)
重鉻酸銨 / Ammonium dichromate*** (CAS No.: 7789-09-5)	%	n.d.	-	致癌第二類; 致突變第二類; 繁殖力毒性第二類 (Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2)
重鉻酸鉀 / Potassium dichromate*** (CAS No.: 7778-50-9)	%	n.d.	-	致癌第二類; 致突變第二類; 繁殖力毒性第二類 (Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2)
鉻酸鉀 / Potassium chromate*** (CAS No.: 7789-00-6)	%	n.d.	-	致癌第二類; 致突變第二類 (Carcinogenic category 2; mutagenic category 2)

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. 除非另有說明, 此報告結果僅對測試的樣品負責。本報告未經本公司書面許可, 不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 4 of 14



富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
重鉻酸鈉 / Sodium dichromate*** (CAS No.: 10588-01-9(*))	%	n.d.	-	致癌物質 類別2; 導致基因突變 類別2; 對生殖系統有害 類別2 (Carcinogen Category 2; Mutagen Category 2; Toxic to Reproduction Category 2)
三氧化鉻 / Chromium trioxide *** (CAS No.: 1333-82-0)	%	n.d.	-	致癌物質 類別 1; 導致基因突變 類別 2 (Carcinogen Category 1; Mutagen Category 2)
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 / Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)	%	n.d.	-	致癌物質 類別2 (Carcinogen Category 2)
從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 / Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)	%	n.d.	-	致癌物質 類別2 (Carcinogen Category 2)
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 / Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (Note 10)	%	n.d.	-	致癌物質 類別2 (Carcinogen Category 2)
蔥油 / Anthracene oil (CAS No.: 90640-80-5) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2 (PBT; vPvB; Carcinogen Category 2)
蔥油, 蔥糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)

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. 除非另有說明, 此報告結果僅對測試的樣品負責。本報告未經本公司書面許可, 不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 5 of 14



富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
蔥油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)
蔥油, 含蔥量少 / Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)
蔥油, 蔥糊 / Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)
煤瀝青, 高溫 / Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2 (PBT; vPvB; Carcinogen Category 2)
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類別 2 (Carcinogen Category 2)
鋯矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類別 2 (Carcinogen Category 2)
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 121-14-2)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)

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. 除非另有說明, 此報告結果僅對測試的樣品負責。本報告未經本公司書面許可, 不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 6 of 14



富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
鉻酸鉛 / Lead chromate (CAS No.: 7758-97-6)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)
鉬鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)
鉻酸鉛; 顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)
丙烯醯胺 / Acrylamide (CAS No.: 79-06-1)	%	n.d.	0.005	致癌物質 類別2; 導致基因突變 類別2 (Carcinogen Category 2; Mutagen Category 2)
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (Note 6)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	%	n.d.	0.005	致癌第二類 (Carcinogenic category 2)
硫酸鈷(二價) / Cobalt(II) sulphate *** (CAS No.: 10124-43-3)	%	n.d.	-	致癌物質 類別2; 對生殖系統有害 類別2 (Carcinogen Category 2; Toxic to Reproduction Category 2)
硝酸鈷(二價) / Cobalt(II) dinitrate *** (CAS No.: 10141-05-6)	%	n.d.	-	致癌物質 類別2; 對生殖系統有害 類別2 (Carcinogen Category 2; Toxic to Reproduction Category 2)

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. 除非另有說明, 此報告結果僅對測試的樣品負責。本報告未經本公司書面許可, 不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 7 of 14

富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890



物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
碳酸鈷(二價) / Cobalt(II) carbonate *** (CAS No.: 513-79-1)	%	n.d.	-	致癌物質 類別2; 對生殖系統有害 類別2 (Carcinogen Category 2; Toxic to Reproduction Category 2)
醋酸鈷(二價) / Cobalt(II) diacetate *** (CAS No.: 71-48-7)	%	n.d.	-	致癌物質 類別2; 對生殖系統有害 類別2 (Carcinogen Category 2; Toxic to Reproduction Category 2)
乙二醇甲醚 / 2-Methoxyethanol (CAS No.: 109-86-4)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
乙二醇乙醚 / 2-Ethoxyethanol (CAS No.: 110-80-5)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
乙二醇乙醚乙酸酯 (2-ethoxyethyl acetate) (CAS No.: 111-15-9)	%	n.d.	0.05	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	%	n.d.	0.05	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
聯氨 (Hydrazine) (CAS No.: 7803-57-8; 302-01-2)	%	n.d.	0.05	致癌物質 類別 2 (Carcinogen Category 2)
N-甲基吡咯烷酮 (1-methyl-2-pyrrolidone) (CAS No.: 872-50-4)	%	n.d.	0.05	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
1,2,3-三氯丙烷 (1,2,3-trichloropropane) (CAS No.: 96-18-4)	%	n.d.	0.05	致癌物質 類別 2; 對生殖系統有害 類別2 (Carcinogen Category 2; Toxic to Reproduction Category 2)
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯, 富C7 (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	%	n.d.	0.05	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)

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. 除非另有說明, 此報告結果僅對測試的樣品負責。本報告未經本公司書面許可, 不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 8 of 14

富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890



物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)	分類 (Classification)
		No.1		
鉻酸鋇 (Strontium chromate)*** (CAS No.: 7789-06-2)	%	n.d.	-	致癌物質 類別 2 (Carcinogen Category 2)

備註(Note):

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit / 未檢出
3. RL = Reporting Limit / 報告極限值
4. 列於附錄A中之分類定義是根據67/548/EE以及Regulation (EC) No 1907/2006 (Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006)。
5. (*): 重鉻酸鈉二水合物(CAS No.: 007789-12-0)含量 = 重鉻酸鈉含量 × 1.1374
(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1374)
6. 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
7. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來。 / The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
8. "-" = Not Regulated (無規格值)
9. ***: 該物質是由"三丁基錫"或各別元素 (例如: 砷、鉛、六價鉻、硼或鈷)之測試結果計算得知。
The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead, Cr(VI), Boron or Cobalt respectively).

$$AX = A \times F$$

AX	A	F
五氧化二砷 / Diarsenic pentaoxide	砷 / Arsenic	1.5339
三氧化二砷 / Diarsenic trioxide		1.3203
三乙基砷酸酯 / Triethyl arsenate		3.0179
砷酸氫鉛 / Lead hydrogen arsenate		4.6332
三丁基錫氧化物 / Bis(tributyltin)oxide	鉛 / Lead	1.6753
重鉻酸鈉 / Sodium dichromate	三丁基錫 / Tributyl Tin (TBT)	1.0276
鉻酸鈉 / Sodium chromate		2.5192
重鉻酸銨 / Ammonium dichromate		3.1151
	六價鉻 / Hexavalent Chromium Cr(VI)	2.4239

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. 除非另有說明, 此報告結果僅對測試的樣品負責。本報告未經本公司書面許可, 不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 9 of 14



富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

AX	A	F
重鉻酸鉀 / Potassium dichromate	六價鉻 / Hexavalent Chromium Cr(VI)	2.8289
鉻酸鉀 / Potassium chromate		3.7347
三氧化鉻 / Chromium trioxide		1.9231
鉻酸 / Chromic acid		2.2696
重鉻酸 / Dichromic acid		2.0963
鉻酸鋇 / Strontium chromate		3.9159
硼酸 / Boric acid	硼 / Boron	5.7195
無水四硼酸二鈉 / Disodium tetraborate, anhydrous		4.6531
水合硼酸鈉(五水四硼酸二鈉) / Disodium tetraborate, pentahydrate		6.7361
水合硼酸鈉(十水四硼酸二鈉) / Disodium tetraborate, decahydrate		8.8191
硫酸鈷(二價) / Cobalt(II) sulphate	鈷 / Cobalt	2.63
硝酸鈷(二價) / Cobalt(II) dinitrate		3.1042
碳酸鈷(二價) / Cobalt(II) carbonate		2.0183
醋酸鈷(二價) / Cobalt(II) diacetate		3.0038

"砷酸氫鉛"之濃度是取砷及鉛兩者各別換算出砷酸氫鉛濃度，並取其之最小值做為最後出報告之依據。

(Regarding lead hydrogen arsenate lead and arsenic are tested and used for the calculation of the separated concentration of lead hydrogen arsenate. The final concentration of lead hydrogen arsenate for the report uses the minimum value of above-mentioned two concentration of lead hydrogen arsenate.)

測試結果如下(The test result is given as):

物質名稱 (Substance Name)	單位 (Unit)	結果 (Result)	報告 極限值 (RL)
		No.1	
三丁基錫 / Tributyl Tin (TBT) (CAS No.: 688-73-3)	%	n.d.	0.005
砷 / Arsenic (As)	%	n.d.	0.005
鉛 / Lead (Pb)	%	n.d.	0.005
六價鉻 / Hexavalent Chromium Cr(VI)	%	n.d.	0.005
硼 / Boron (B)	%	n.d.	0.005
鈷 / Cobalt (Co)	%	n.d.	0.005

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. 除非另有說明，此報告結果僅對測試的樣品負責。本報告未經本公司書面許可，不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 10 of 14

富致科技股份有限公司

FUZETEC TECHNOLOGY CO., LTD.

新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890



10. 鉻酸與重鉻酸的寡聚體：因為其寡聚體是由未知數的鉻酸或與重鉻酸所組成，而導致沒有固定分子量，因此以單體鉻酸或重鉻酸較為重要並應被考慮。/ Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
11. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 11 of 14

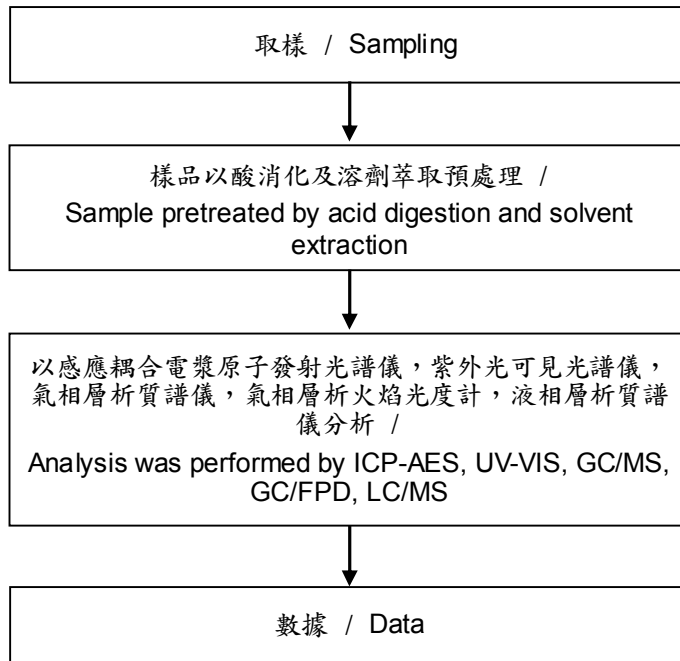


富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

分析流程圖 / Analytical flow chart

- 1) 測試人員：翁賜彬/周穗華/楊登偉 / Name of the person who made measurement: Roman Wong/ Stacy Chou/ Climbgreat Yang
- 2) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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. 除非另有說明，此報告結果僅對測試的樣品負責。本報告未經本公司書面許可，不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 12 of 14

富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890



CR/2011/50020



CR/2011/50020



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. 除非另有說明，此報告結果僅對測試的樣品負責。本報告未經本公司書面許可，不可部份複製。
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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 13 of 14

富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號



NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

【附錄 (Appendix) A】

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
致癌物質 類別1 (Carcinogen Category 1):	已知會對人類致癌的物質。有足夠的證據證明人體暴露於該物質和癌症發展之間有相互的關聯性 (Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer)。
致癌物質 類別2 (Carcinogen Category 2):	應被視為可能對人體會導致致癌的物質。有足夠的證據強力推論人體暴露於該物質可能導致癌症發展，上述基於下列研究所得之結果 (Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of): <ul style="list-style-type: none"> - 適當的長期動物實驗 (appropriate long-term animal studies)。 - 其他相關資訊 (other relevant information)。
導致基因突變 類別1 (Mutagen Category 1):	已知會對人類導致基因突變的物質。有足夠的證據證明人體暴露於該物質和遺傳基因損害之間有相互的關聯性 (Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage)。
導致基因突變 類別2 (Mutagen Category 2):	應被視為是否對人體會導致基因突變的物質。有足夠的證據強力推論人體暴露於該物質可能導致遺傳基因損害，上述基於下列研究所得之結果 (Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of): <ul style="list-style-type: none"> - 適當的長期動物實驗 (appropriate animal studies)。 - 其他相關資訊 (other relevant information)。
對生殖系統有害 類別1 (Toxic to Reproduction Category 1):	已知會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質和生殖能力削弱之間有相互的關聯性 (Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility)。 已知會在人體引起毒性的物質。有足夠的證據證明人體暴露於該物質和其後產生之毒性對後代造成影響有相互之關聯性 (Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny)。

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. 除非另有說明，此報告結果僅對測試的樣品負責。本報告未經本公司書面許可，不可部份複製。
 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'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.

測試報告 Test Report

號碼(No.): CR/2011/50020 日期(Date): 2011/05/11 頁數(Page): 14 of 14



富致科技股份有限公司
FUZETEC TECHNOLOGY CO., LTD.
新北市五股區五工五路60號

NO. 60, WU-GONG 5 ROAD, WU GU INDUSTRIAL PARK, NEW TAIPEI CITY, TAIWAN 24890

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
<p>對生殖系統有害 類別2 (Toxic to Reproduction Category 2) :</p>	<p>應被視為可能會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質可能導致損害人體生殖能力的有力推論，上述基於下列研究所得之結果 (Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of) :</p> <ul style="list-style-type: none"> - 缺少毒性作用的生殖能力削弱動物實驗中的明顯證據，或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據 (clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects) - 其他相關資訊 (other relevant information) <p>應被視為可能在人體引起毒性發展的物質有足夠的證據提供人體暴露於該物質可能引起毒性發展的有力推論，整體而言是基於 (Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of) :</p> <ul style="list-style-type: none"> - 在適當動物實驗研究所進行缺乏顯著母體毒性徵象或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據觀察，所得到之明顯結果 (clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects)。 - 其他相關資訊 (other relevant information)
<p>長期生物蓄積性及毒性物質 & 高持久性和高生物蓄積性物質 (PBT & vPvB) :</p>	<p>長期生物蓄積性及毒性物質(PBT)或高持久性和高生物蓄積性物質(vPvB)造成化學安全管理上特別挑戰。這些物質在環境中無法用一個"安全"濃度建立足夠的可靠度。/ Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.</p>

** 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. 除非另有說明，此報告結果僅對測試的樣品負責。本報告未經本公司書面許可，不可部份複製。
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'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.