



SYNTON-TECH CORPORATION
CEMENT POWER RESISTORS
(SQZ TYPE)

File No. :	SQZ-02-D
Version :	B
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1. INTRODUCTION

Cement resistors are manufactured by winding the ceramic rods with metal alloy resistance wire and put it in a fireproof ceramic box then concrete with non-flameable and heat-resistant cement.

2. FEATURES

- Heat and flame resistant!
- Completely insulated character suitable for printed circuit board.
- For high resistance value, the winding core will be replaced by metal oxide film cutting core (RS type).
- Non inductive type are available on request!

APPROVED	CHECKED	DESIGNED	REMARK	DOCUMENT NO.
Carol	May	Chen	RE:SGS	0201010115



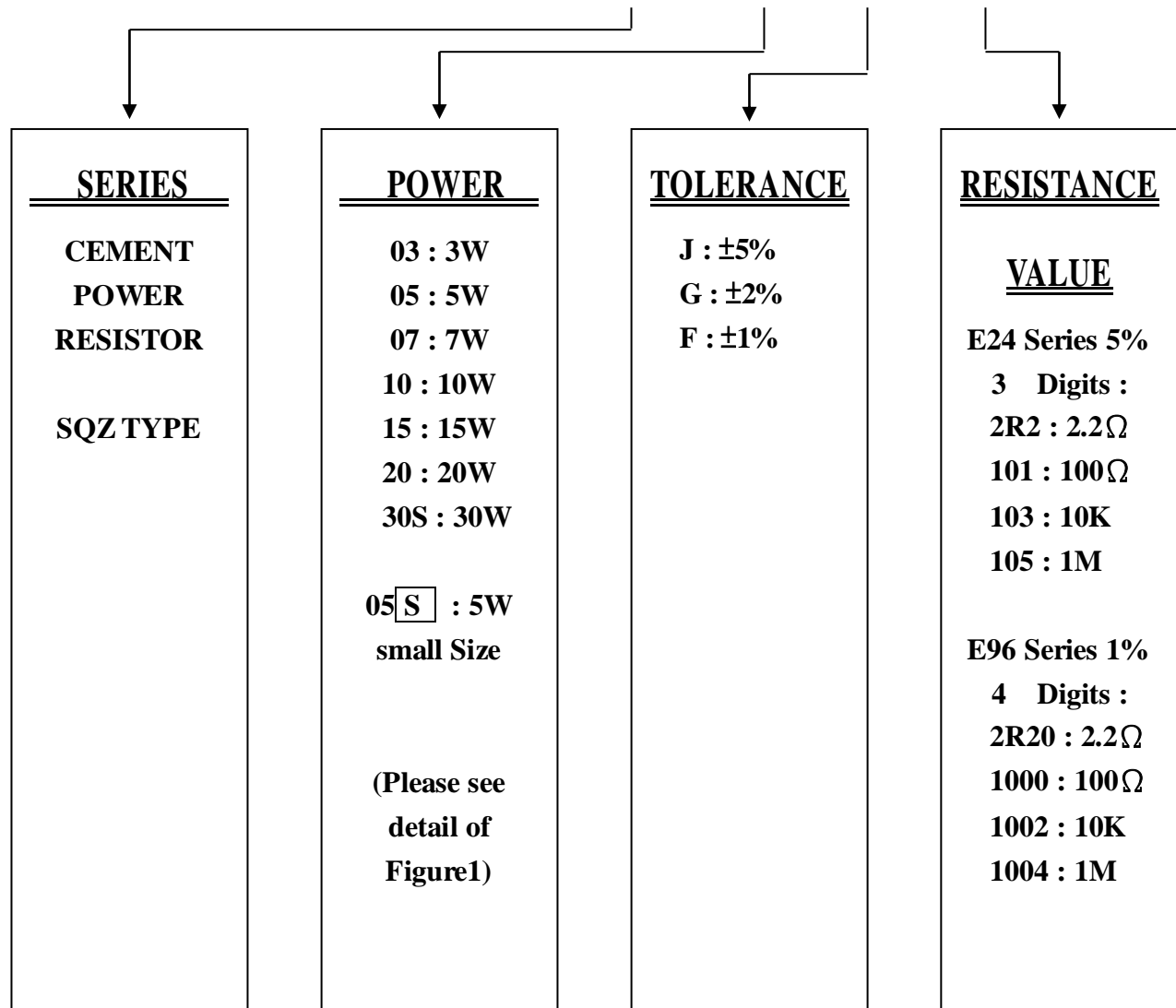
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3. EXPLANATIONS OF ORDERING CODE

DESCRIPTION : SQZ 5W 5% 10K

SYNTON CODE : SQZ 05 J 103





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4. ELECTRICAL CHARACTERISTICS

STYLE	SQZ-03	SQZ-05	SQZ-07	SQZ-10	SQZ-15	SQZ-20	SQZ-25	SQZ-30S	
Power Rating at 70°C	3W	5W	7W	10W	15W	20W	25W	30W	
Operating Temp. Range	-55°C ~ +155°C								
Maximum Working Volt.	250V	350V	500V	500V	500V	500V	500V	500V	
Maximum Overload Volt.	500V	700V	1000V	1000V	1000V	1000V	1000V	1000V	
Dielectric withstanding Volt.	500V	700V	1000V	1000V	1000V	1000V	1000V	1000V	
Value Range	Special	0.01Ω ~0.09Ω	0.01Ω ~0.09Ω	0.01Ω ~0.09Ω	0.01Ω ~0.09Ω	0.01Ω ~0.9Ω	0.01Ω ~0.9Ω	0.01Ω ~0.9Ω	0.01Ω ~0.9Ω
	standard	0.1Ω ~50K	0.1Ω ~50K	0.1Ω ~50K	0.1Ω ~50K	1Ω ~150K	1Ω ~150K	1Ω ~150K	1Ω ~150K
Temp. Coefficient	±300 PPM / °C special low to ±25PPM , high to ±1500PPM								

Figure 1

* Standard resistance is at the above list, below or over this resistance on request.

* Non-Inductive type up to 50Ω only.

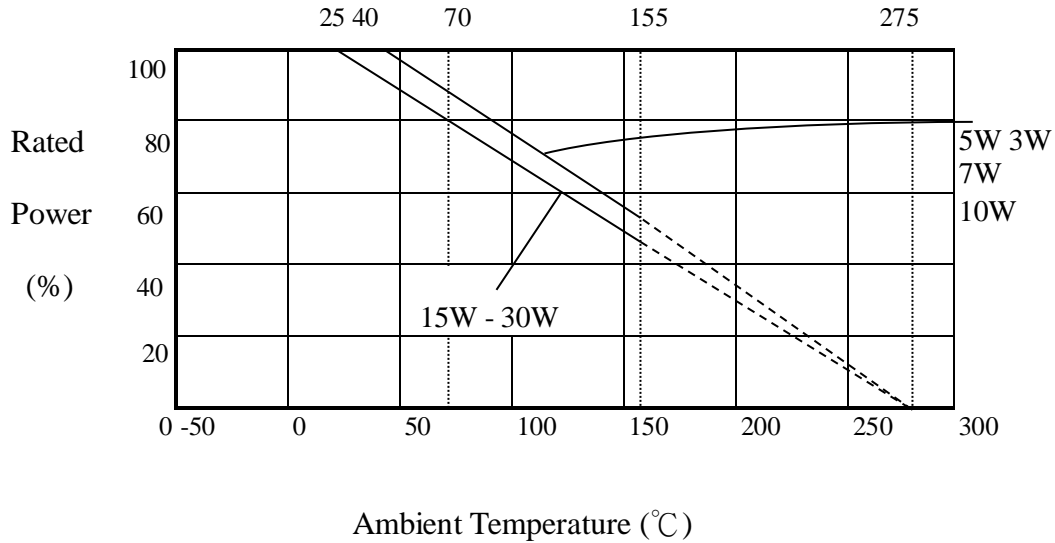


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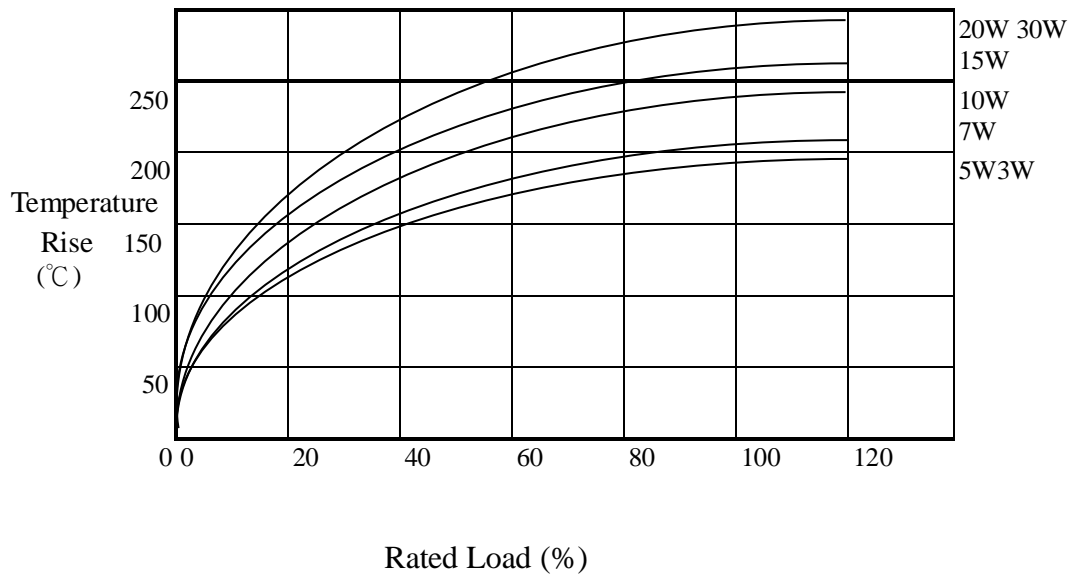
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5. DERATING CURVE



6. TEMPERATURE RISE

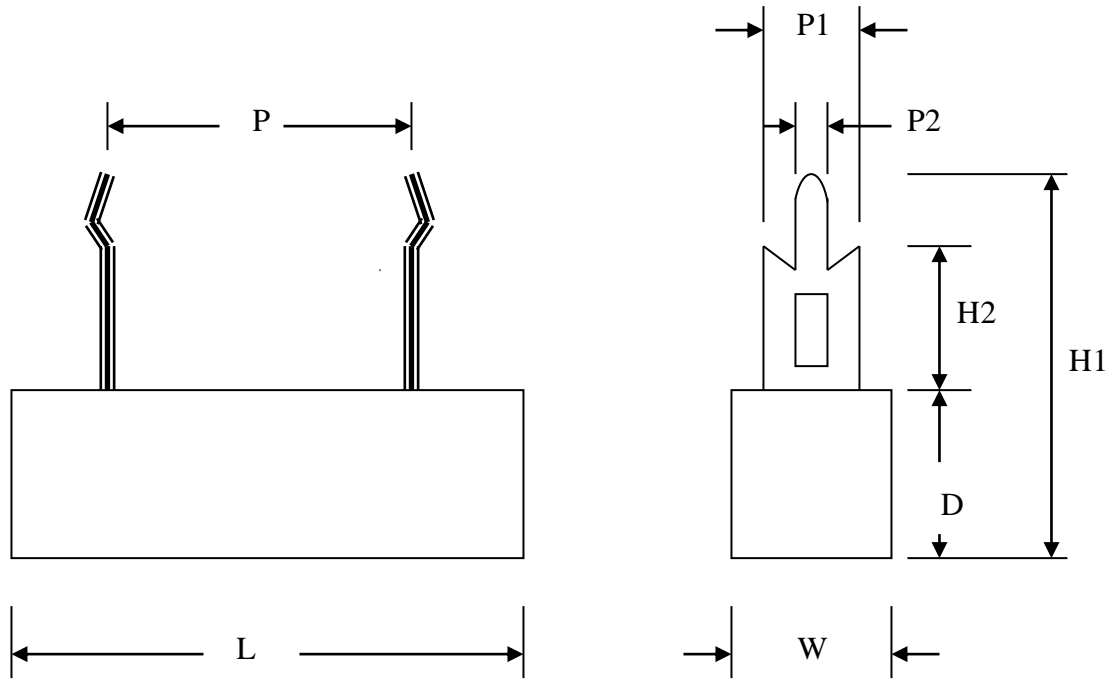




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7. DIMENSIONS



Unit:m/m

TYPE	POWER	L	W	H	P	P1	P2	H1	H2
SQZ-03	3W	24±1.5	9±1.5	9±1.5	8±1.5	6±1.5	1.4±0.2	25±1.5	10.5±1.5
SQZ-05	5W	27±1.5	10±1.5	9±1.5	15±1.5	6±1.5	1.4±0.2	25±1.5	10.5±1.5
SQZ-07	7W	35±1.5	10±1.5	9±1.5	20.5±1.5	6±1.5	1.4±0.2	25±1.5	10.5±1.5
SQZ-10	10W	48±1.5	10±1.5	9±1.5	30±1.5	6±1.5	1.4±0.2	25±1.5	10.5±1.5
SQZ-15	15W	48±1.5	12.5±1.5	11.5±1.5	32±1.5	10±2.0	3±0.5	33±1.5	15±1.5
SQZ-20	20W	63±1.5	12.5±1.5	11.5±1.5	45±2.0	10±2.0	3±0.5	33±1.5	15±1.5
SQZ-25	25W	63±1.5	12.5±1.5	11.5±1.5	45±2.0	10±2.0	3±0.5	33±1.5	15±1.5
SQZ-30S	30W	63±1.5	12.5±1.5	11.5±1.5	45±2.0	10±2.0	3±0.5	33±1.5	15±1.5

Figure2



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8. ENVIRONMENTAL CHARACTERISTICS

(1) Short-Time Overload

Test Method : 2.5 time RC WV for 5 seconds.

Acceptance Standard : $\pm (2\% + 0.05\Omega)$

(2) Temperature Coefficient of Resistance

Test Method : $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Acceptance Standard : $\pm 300\text{ppm}/^{\circ}\text{C}$

(3) Insulation Resistance

Test Method : in V-Block

Acceptance Standard : $> 1,000\text{M}\Omega$

(4) Solderability

Test Method : $260\pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds

Acceptance Standard : 95% min. covering

(5) Resistance to Solvent

Test Method : Trichroethane for 1 min. with ultrasonic

Acceptance Standard : no deterioration of coatings and markings

(6) Terminal Strength

Test Method : Direct load for 10 sec. In the direction
of the terminal leads

Acceptance Standard : $\geq 2.54\text{kg} (24.5\text{N})$

(7) Pulse overload

Test Method : 3 times RC WV 1000 ± 100 cycles

(1 sec. on 25 sec. off)

Acceptance Standard : $\pm(2\% + 0.05\Omega)$



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(8) Load Life in Humidity

Test Method : $40\pm 2^{\circ}\text{C}$, 90~95% RH at RCWV for 1000 hrs.
(1.5 hrs. on, 0.5 hrs. off)
Acceptance Standard : $\pm (5\% + 0.05 \Omega)$

(9) Load Life

Test Method : 70°C at RCWV for 1000 hrs.
(1.5 hrs. on, 0.5 hrs. off)
Acceptance Standard : $\pm (5\% + 0.05 \Omega)$

(10) Temperature Cycling

Test Method : $-65^{\circ}\text{C} \rightarrow$ room temp. $\rightarrow 150^{\circ}\text{C} \rightarrow$ room temp.
for 5 cycles
Acceptance Standard : $\pm (2\% + 0.05 \Omega)$

(11) Resistance to Soldering Heat

Test Method : Tensile : $350^{\circ}\text{C} \pm 10^{\circ}\text{C}$ for 3 ± 0.5 seconds
Acceptance Standard : $\pm (1\% + 0.05 \Omega)$

● **Rated continuous Working Voltage (RCWV)**

$$= \sqrt{\text{power rating} \times \text{resistance value}}$$



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Test Report

欣統股份有限公司 / SYNTON-TECH CORPORATION

(東莞市欣統電子有限公司 / SYNTRONIC CORPORATION)

台灣省新北市汐止區新台五路一段79號16樓之3 / 16F-3, NO. 79, FAR EAST WORLD CENTER SEC. 1,

HSIN TAI WU ROAD, HSI-CHIH DISTRICT, NEW TAIPEI CITY, TAIWAN, R.O.C

(廣東省東莞市大朗鎮水口村水常一路13號 / NO. 13, SHUI CHANG YI RD. ; SHUI KOU INDUSTRIAL ZONE DA LANG, DONG GUAN, GUANG DONG, CHINA)



以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : CEMENT FIXED RESISTORS
 樣品型號(Style/Item No.) : SQP, SQM, SQT, SQZ, SQH, SQS, SQF, SQHG, FTM TYPE
 收件日期(Sample Receiving Date) : 2018/03/31
 測試期間(Testing Period) : 2018/03/31 TO 2018/04/11

測試需求(Test Requested) : 依據客戶指定，進行鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚測試。(As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample(s).)

測試方法(Test Method) : 請參閱下一頁 (Please refer to following pages).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

Troy Chang, Manager, Tech
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei

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SYNTON-TECH CORPORATION
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Test Report

欣統股份有限公司 / SYNTON-TECH CORPORATION
 (東莞市欣統電子有限公司 / SYNTRONIC CORPORATION)

台灣省新北市汐止區新台五路一段79號16樓之3 / 16F-3, NO. 79, FAR EAST WORLD CENTER SEC. 1,
 HSIN TAI WU ROAD, HSI-CHIH DISTRICT, NEW TAIPEI CITY, TAIWAN, R.O.C
 (廣東省東莞市大朗鎮水口村水常一路13號 / NO. 13, SHUI CHANG YI RD., SHUI KOU INDUSTRIAL ZONE DA LANG,
 DONG GUAN, GUANG DONG, CHINA)

測試結果(Test Results)

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

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013), 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.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5 (2013), 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.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4 (2013), 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.
六價鉻 / Hexavalent Chromium Cr(VI) (◆)	mg/kg	參考IEC 62321-7-2 (2017), 以UV-VIS檢測; 參 考IEC 62321-5 (2013), 以ICP-AES檢測。 / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP- AES.	8	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg	參考IEC 62321-6 (2015), 以氣相層析/質 譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.	5	n. d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.

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SYNTON-TECH CORPORATION
CEMENT POWER RESISTORS
(SQZ TYPE)

File No. : SQZ-02-D
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欣統股份有限公司 / SYNTON-TECH CORPORATION
 (東莞市欣統電子有限公司 / SYNTRONIC CORPORATION)



台灣省新北市沙止區新台五路一段79號16樓之3 / 16F-3, NO. 79, FAR EAST WORLD CENTER SEC. 1,
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 (廣東省東莞市大朗鎮水口村水常一路13號 / NO. 13, SHUI CHANG YI RD., SHUI KOU INDUSTRIAL ZONE DA LANG,
 DONG GUAN, GUANG DONG, CHINA)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321-6 (2015), 以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n. d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n. d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n. d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	n. d.	

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n. d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. (◆) :
 若鉻含量小於六價鉻之方法偵測極限值，則六價鉻為n. d.，不須再測試六價鉻。
 The result of Cr(VI) is "n. d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.
 若鉻含量未小於六價鉻之方法偵測極限值，需進行六價鉻測試。
 If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.
6. 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.)

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SYNTON-TECH CORPORATION

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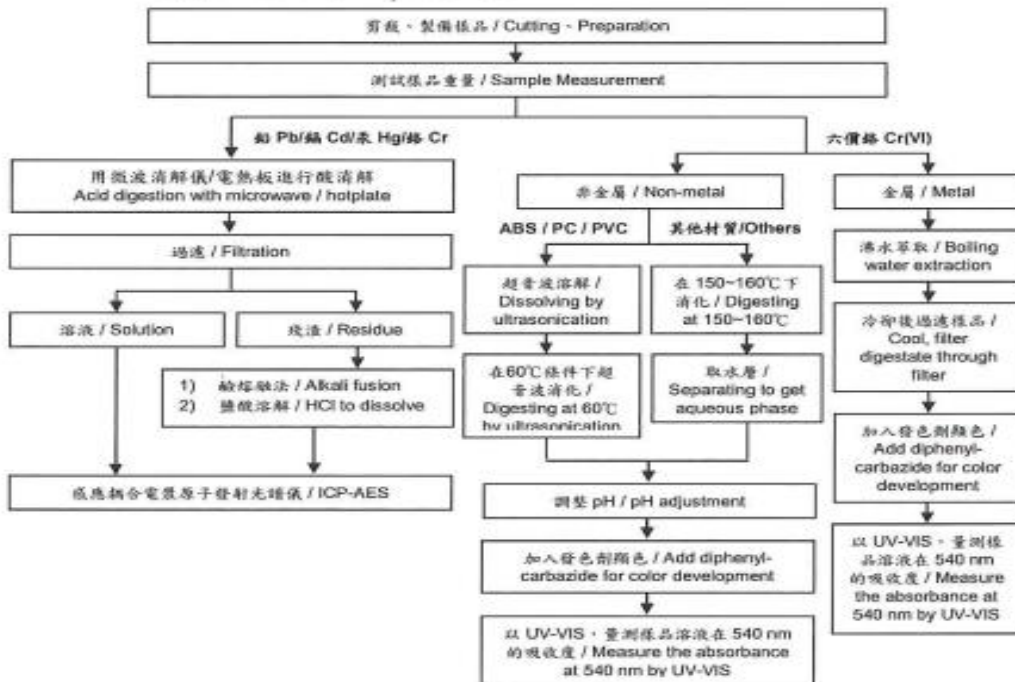
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重金屬流程图 / Analytical flow chart of Heavy Metal

根據以下的流程图之條件，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^{VI} test method excluded)

- 測試人員: 王志璋 / Technician: JR Wang
- 測試負責人: 張啟興 / Supervisor: Troy Chang



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欣統股份有限公司 / SYNTRONIC CORPORATION

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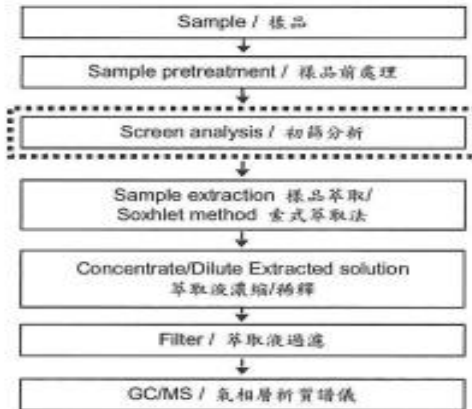
(廣東省東莞市大朗鎮水口村水常一路13號 / NO. 13, SHUI CHANG YI RD., SHUI KOU INDUSTRIAL ZONE DA LANG, DONG GUAN, GUANG DONG, CHINA)



多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅琴 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process →
 選擇性篩檢程序 / Optional screen process
 確認程序 / Confirmation process - - - →



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SYNTON-TECH CORPORATION
CEMENT POWER RESISTORS
(SQZ TYPE)

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Page :	13/13
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測試報告

號碼(No.) : CE/2018/37911A 日期(Date) : 2018/04/24 頁數(Page): 6 of 6

Test Report

欣航股份有限公司 / SYNTON-TECH CORPORATION



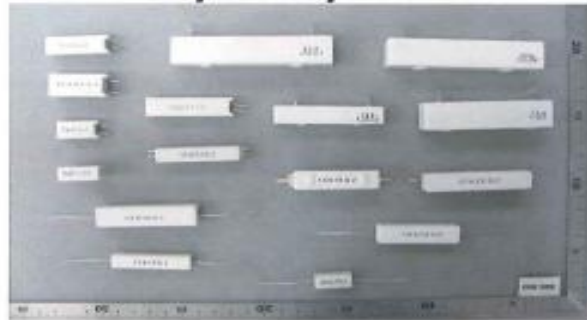
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *
 (The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2018/37911



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** 報告結尾 (End of Report) **

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