

Test Report

Applicant: Shanghai Richeng Electronic Co., Ltd.

Address: Xinsheng Industrial Area, Zhelin, Fengxian, Shanghai

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name: Metal Flexible Conduit

Model No.(P.O No.): MCR-HF,BG/PE,BG/PEV0,BG/PP,BG/PPV0,BG/PA,
BG/PAN0,BGR

Verification Period: 10.11, 2015-----20.11, 2015

Verification Requested: Verification testing of RoHS Directive 2002/95/EC, and its amendment directives 2011/65/EU Annex II

Verification Method: (1) Screening by XRF Spectroscopy
With reference to IEC 62321, Edition 1.0:2008, method: Regulated Substances
Content of test process with Electrical & Electronic Products.

(2) Wet Chemical Test Method

Reference to IEC 62321 Edition 1.0:2008, 111/95/CDV, "Electrotechnical Products- Determination of Levels of Six Regulated Substances"

a. Determination of Lead & Cadmium by ICP and AAS

b. Determination of Mercury by ICP

c. Determination of Hexavalent Chromium by UV-Vis

d. Determination of PBB and PBDE by GC/MS

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Remark:

(1)(a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by YCP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321 Ed.1 2nd 11/95/CDV Annex D. (Unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = Lower Limit, OL = Upper Limit, OL = Not applicable, LOD = Limit of Detection, -- = Not applicable
 example, PBBs and PBDEs will not be tested in metal samples.

(d) The XRF screening test for RoHS elements - The reading may be different to the actual content of non-uniformity composition

(2) (a) mg/kg - ppm 1000%, ND = not detected (<MDL); --- = not conducted

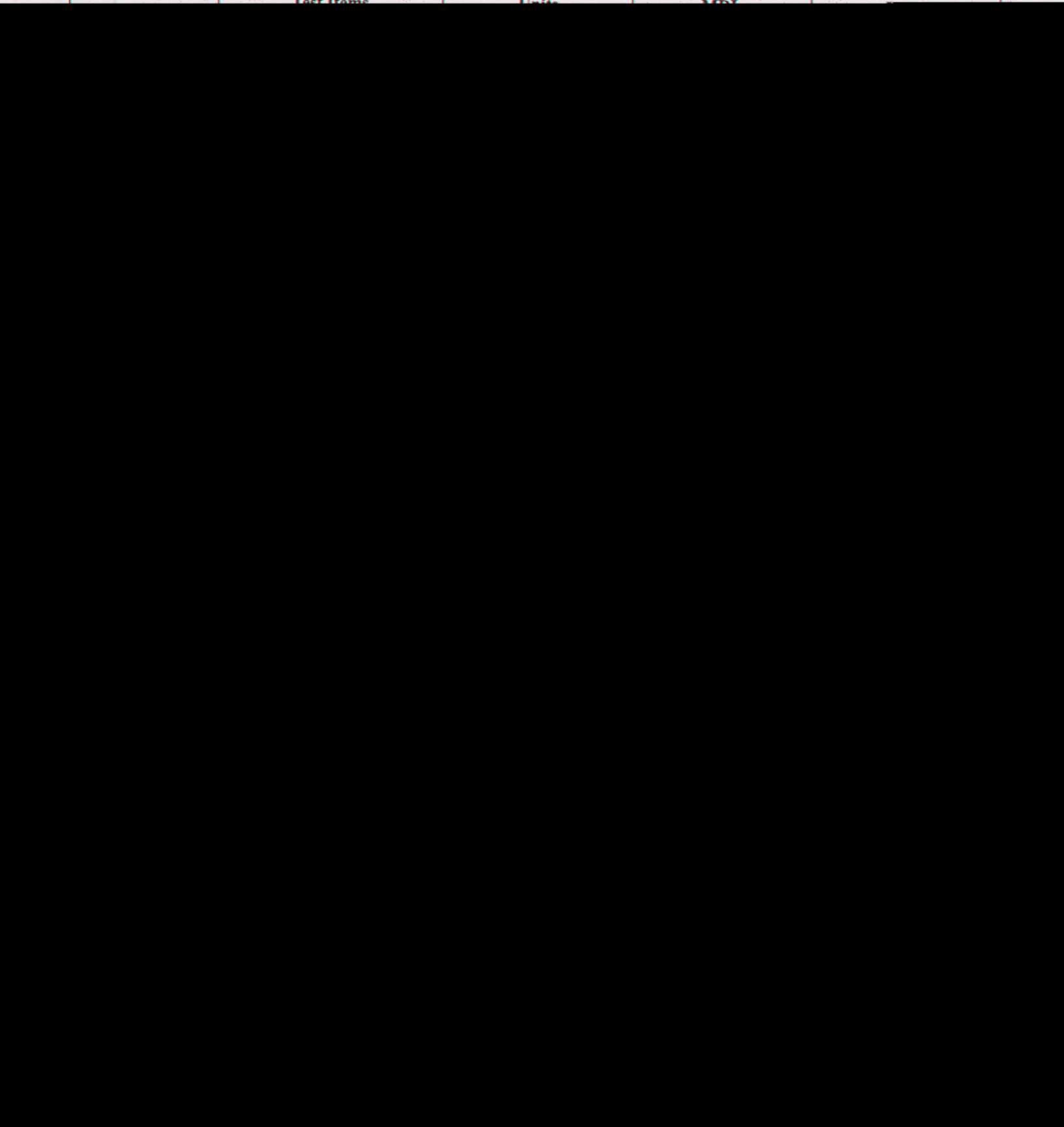
(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Units	MDL	Limit
Cadmium (Cd)	mg/kg	2	100
Mercury (Hg)	mg/kg	2	1000
Cr VI	mg/kg	NA	100
PBBs			
Dibromobiphenyl			
Tribromobiphenyl	mg/kg	5	1
Tetrabromobiphenyl			
Pentabromobiphenyl			



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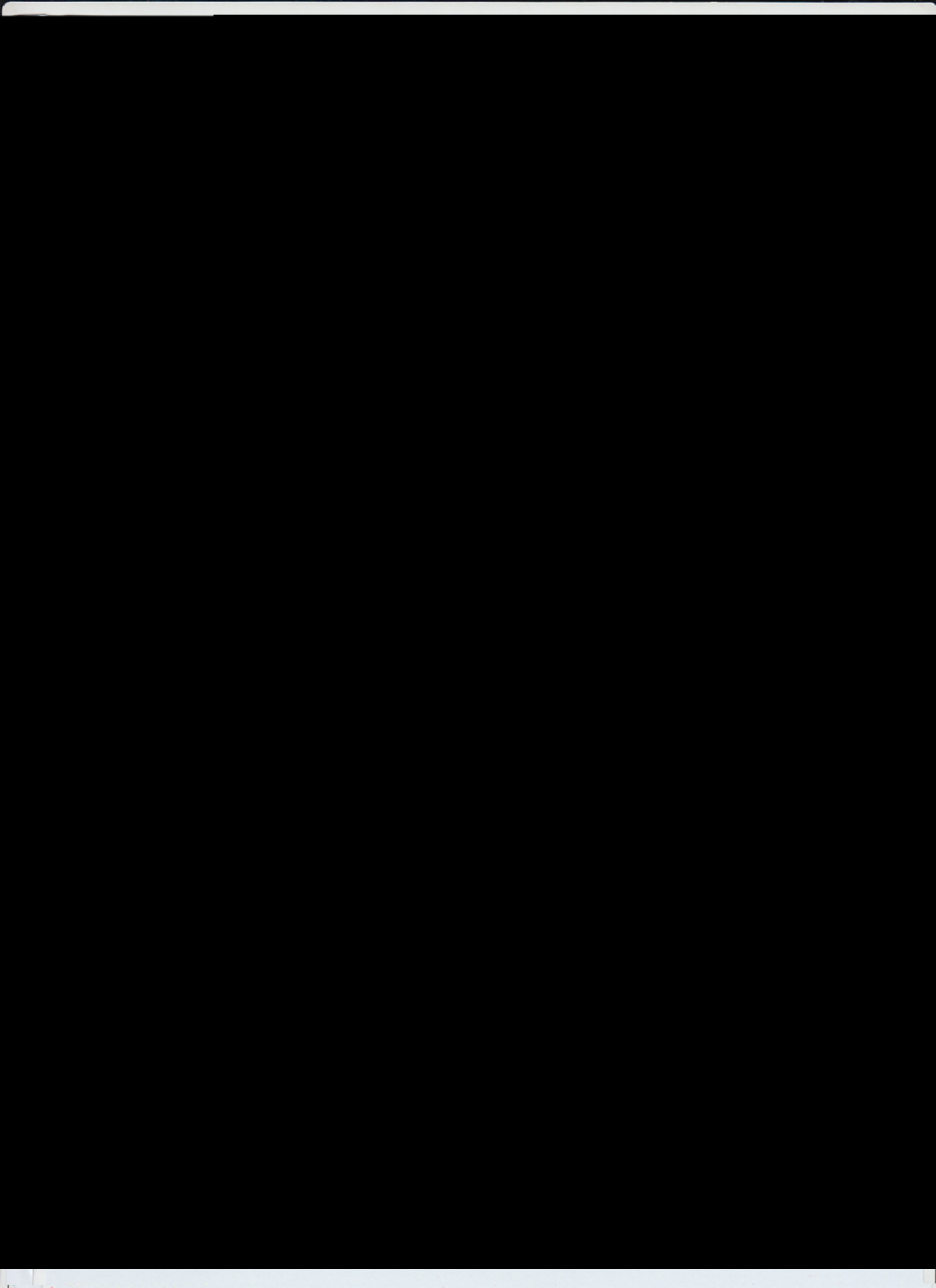
Test Item	Units	MPA	mm
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Verification Results.

Part No.	Part Name	Restricted Substances	Results of EDXRF(1)	Result of Wet Chemical Testing(2)	Conclusion
		Cd	BL	N.D.	Pass
		Pb	BL	N.D.	Pass
		Hg	BL	N.D.	Pass



~~CONFIDENTIAL~~
EXEMPTION LIST

1. Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
 - (a) For general lighting purposes < 30W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2012).
 - (b) For general lighting purposes > 30W and < 50W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2012).

