# Prüfbericht - Nr.: 50011250 002

*Test Report No.:*



| | |
|---|---|
| **Auftraggeber:** *Client:* | LS Mtron Ltd.<br>LS Mtron Hi-tech center, 116, LS-ro, Dongan-gu, Anyang-Si, Geyonggi-do, 431-831, R.O.K. |
| **Gegenstand der Prüfung:** *Test Item:* | C-Type Cell Series |
| **Bezeichnung:** *Identification:* | - |
| **Anlieferungszustand:** *Delivery condition:* | apparent good |
| **Eingangsdatum:** *Date of Receipt:* | 09.05.2014 |
| **Prüfort:** *Testing Location:* | Seongnam |
| **Prüfgrundlage:** *Test Specification:* | EU Directive 2011/65/EU, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS),<br>With reference to IEC 62321 Ed.1 : 2008 |
| **Prüfergebnis:** *Test Result:* | Pruefergebnisse finden Sie auf den folgenden Seiten<br>*Refer to the following page(s)* |

**kontrolliert/** *checked by:*

| **Datum** *Date* | **Name** *Name* | **Unterschrift** *Signature* |
|---|---|---|
| 17.06.2014 | SeungYeop Lee | |

**kontrolliert/** *checked by:*

| **Datum** *Date* | **Name** *Name* | **Unterschrift** *Signature* |
|---|---|---|
| 17.06.2014 | Jung-Hee Yoo | |

**Sonstiges/** *Other Aspects:*

- TUV Reference No. : 133037939

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ***Abkürzungen:*** | ***ok / P*** | = | ***entspricht Prüfgrundlage*** | ***Abbreviations:*** | ***ok / P*** | = | ***passed*** |
| | ***fail / F*** | = | ***entspricht nicht Prüfgrundlage*** | | ***fail / F*** | = | ***failed*** |
| | ***n.a. / N*** | = | ***nicht anwendbar*** | | ***n.a. / N*** | = | ***not applicable*** |

**Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.**

*This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

| | | |
|---|---|---|
| Test Method: | Screening Test | Lead (Pb), Cadmium (Cd), Mercury (Hg), Chromium (Cr), Bromine (Br) with reference to IEC 62321, Ed.1:2008 section 6, by XRF Spectroscopy |
| | Chemical Test | Lead (Pb), Cadmium (Cd), Mercury (Hg) with reference to IEC 62321, Ed.1:2008, by ICP-AES<br>Chromium VI (Cr VI) with reference to IEC 62321, Ed.1:2008, by UV/VIS<br>Polybrominated biphenyls (PBBs) / Polybrominated dephenyl ethers (PBDEs) with reference to IEC 62321, Ed.1:2008, by GC/MS |
| Limit: | Directive 2011/65/EU | |

**Test result(s) of component 1 of 1, 10 material(s), C-Type Cell Series**

| Material No. | Limit (mg/kg) | | | | | |
|---|---|---|---|---|---|---|
| | Lead | Cadmium | Mercury | Chromium VI | PBBs | PBDEs |
| | 1000 | 100 | 1000 | 1000 | 1000 | 1000 |
| | Method Detection Limit (MDL) in Chemical Test (mg/kg) | | | | | |
| | Lead | Cadmium | Mercury | Chromium VI | PBBs | PBDEs |
| | <5 | <5 | <5 | <1 | <5 | <5 |
| | Result (mg/kg) | | | | | |
| | Lead | Cadmium | Mercury | Chromium VI | PBBs | PBDEs |
| 1 | P | P | P | P | P | P |
| 2 | P | P | P | P | N.A | N.A |
| 3 | P | P | P | P | P | P |
| 4 | P | P | P | P | P | P |
| 5 | P | P | P | P | P | P |
| 6 | P | P | P | P | P | P |
| 7 | P | P | P | P | P | P |
| 8 | P | P | P | P | P | P |
| 9 | P | P | P | P | P | P |
| 10 | P | P | P | P | N.A | N.A |

Remark:
- mg/kg denotes milligram per kilogram or ppm (parts per million)
- < denotes less than
- P denotes pass according to IEC 62321, Ed.1:2008 section 6, by XRF Spectroscopy
- N.A denotes not applicable
- negative denotes undetectable according to spot test
- n.d. denotes not detected

Test Method: Bromine(Br), Chlorine(Cl) with reference to EN 14582, Conbustion I.C / Oxygen bomb

Limit: -

**Test result(s)**

| Material No. | Method Detection Limit (MDL) in Chemical Test (mg/kg) | |
|---|---|---|
| | Cl | Br |
| | <30 | <30 |
| | Result (mg/kg) | |
| Parameter | Cl | Br |
| 1 | n.d. | n.d. |
| 2 | N.A | N.A |
| 3 | n.d. | n.d. |
| 4 | n.d. | n.d. |
| 5 | n.d. | n.d. |
| 6 | n.d. | n.d. |
| 7 | n.d. | n.d. |
| 8 | n.d. | n.d. |
| 9 | n.d. | n.d. |
| 10 | N.A | N.A |

**Remark:**
- mg/kg denotes milligram per kilogram or ppm (parts per million)
- < denotes less than
- n.d. denotes not detected (<MDL)
- N.A denotes not applicable

**Photo(s) of component 1 of 1, 10 material(s), C-Type Cell Series**


1


2


3


4


5


6


7


8


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- End of Test Report –