

Test Report

No. LPCI/06157/08

Date : 2008/03/28

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CTS Ref. CTS/08/1394/Electroloy

**ELECTROLOY CORPORATION SDN. BHD.
3&6, JALAN BAYU 7, BANDAR SERI ALAM,
81750 MASAI, JOHOR, MALAYSIA.**

The following merchandise was (were) submitted and identified by the client as:

Sample Description : EM 3055R-L HALIDE FREE ROSIN BASED NO CLEAN FLUX
Sample Receiving Date : 2008/03/24
Testing Period : 2008/03/24 to 2008/03/28


Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP
(4) With reference to IEC 62321/2nd (111/95/CDV) Section 9 for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN
B.Sc.(HONS) AMIC
LAB MANAGER

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI)	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description :

As per page 3

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Test Part Description :

Sample Description : EM 3055R-L HALIDE FREE ROSIN BASED NO CLEAN FLUX

Note : (a) mg/kg = ppm
(b) N.D. = Not Detected
(c) MDL = Method Detection Limit
(d) Testing based on original basis.

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1. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321/2nd (111/95/CDV)

Sample Preparation
 ↓
 Add colour-developing reagent
 ↓
 Acidify with H₂SO₄
 ↓
 Let stand for 5-10 min
 ↓
 Analyses by UV- Spectrophotometer (540 nm)

2. DETERMINATION OF LEAD CONTENT BY IEC 62321/2nd (111/95/CDV)

Sample Preparation
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (1.0g) into digestion vessel
 ↓
 Wet digestion / Microwave digestion
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

3. DETERMINATION OF MERCURY CONTENT BY IEC 62321/2nd (111/95/CDV)

Sample Preparation
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (0.5 - 1.0g) into digestion vessel
 ↓
 Acid digestion (Microwave)
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP


4. DETERMINATION OF CADMIUM CONTENT BY IEC 62321/2nd (111/95/CDV)

Sample Preparation
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (1.0g)
 ↓
 Acid digestion
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321/2nd (111/95/CDV)

Sample Preparation
 ↓
 Weight sample (2g) into extraction thimble
 ↓
 Soxhlet Extraction with Toluene
 ↓
 Filter through 0.45 um membrane filter
 ↓
 Analyses by GC-MS (with appropriate dilution)

SGS LABORATORY SERVICES (M) SDN. BHD. End of Report ****



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