



Test Report

No. VNHL2101001104EE

Date: January 25, 2021

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CONG TY TNHH SAN XUAT VA THUONG MAI DULICO

LO A2, CN7, CUM CONG NGHIEP TU LIEM, PHUONG PHUONG CANH, QUAN NAM TU LIEM, THANH PHO HA NOI, VIET NAM.

The following sample was submitted and identified on behalf of the client as below:

SGS Job No.	:	VNHL2101001104EE
Sample Description	:	BRASS STRIP C2801
Style / Item No.	:	01-01-2021
Country of Oigin	:	VIET NAM
Manufacturer	:	DULICO MANUFACTURING CO., LTD
Sample Receiving Date	:	JANUARY 18, 2021
Final confirmed Date	:	JANUARY 18, 2021
Testing Period	:	JANUARY 18, 2021 TO JANUARY 25, 2021
Test Requested	:	PLEASE REFER TO THE RESULT SUMMARY
Test Results	:	PLEASE REFER TO NEXT PAGE(S).
Result Summary	:	

Test Requested	Result (s)	
RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]	Pass	
(Cadmium, Lead, Mercury, Hexavalent chromium)		

Signed for and on behalf of

SGS Vietnam LTD



To Ka Wing

Chemical Lab Manager

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Test results: Test Part Description:

Component No.	Description	Material	Color
1	GOLD METAL (BRASS STRIP C2801)	METAL	GOLD

RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	ND	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	138	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Hg by ICP-OES)	ND	2	1000
Hexavalent Chromium (CrVI) #	µg/cm²	With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS)	ND	0.10	-

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. ND = Not detected
- 4. # = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination
- 5. = not regulated
- IEC 62321 is equivalent to EN 62321
 <u>http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381::::FSP_PROJECT,FSP_LANG_ID:20662,25</u>
- 7. The above test(s) was / were accredited ISO 17025:2005 by VILAS The above test(s) was / were performed by SGS VN's Chemical lab.

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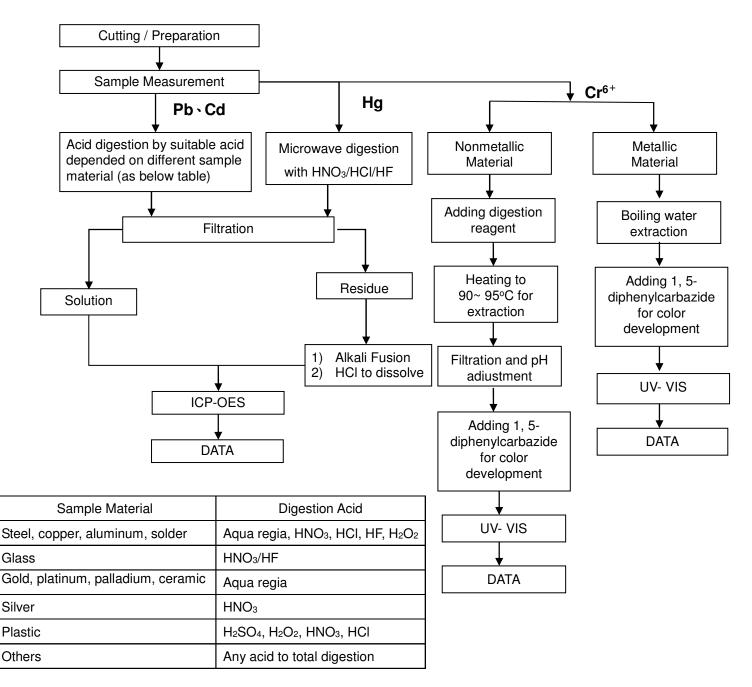
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Flow Chart for RoHS: Pb/Cd/Hg/Cr⁶⁺ Testing

The samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)



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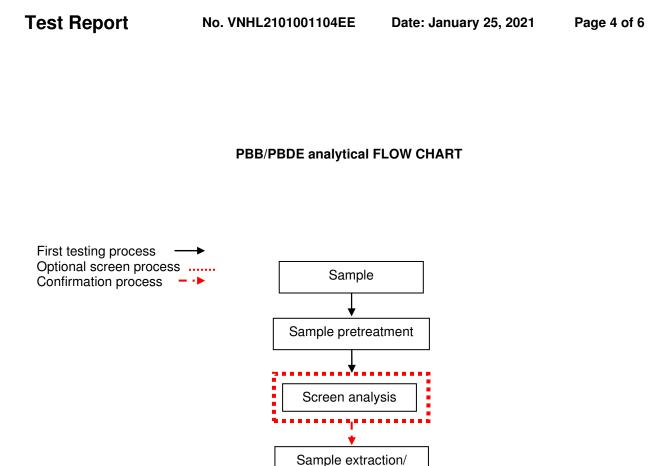
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Soxhlet method

Concentrate/Dilute Extracted solution

Filter

Analysis by GC/MS

▼ Issue Report

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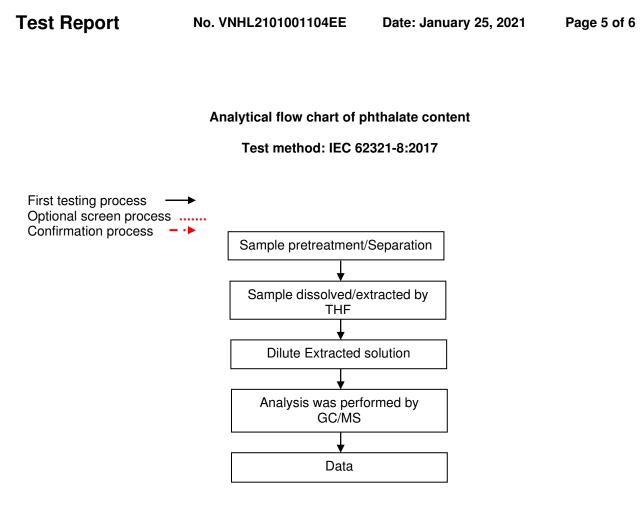
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PHOTO OF SUBMITTED SAMPLE FOR TESTING



REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY ***End of Report***

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