

Test Report Page 1 of 7 No. NGBEC2200904703 Date: 17 May 2022

Client Name : ZHEJIANG LIANHE ELECTRONICS CO,.LTD

Client Address: NO.8 CHUANGXIN ROAD, YUEQING BAY PORT ZONE, YUEQING CITY, ZHEJIANG

Sample Name: Terminal pin Client Ref. Information: See attachment

The above sample(s) and information were provided by the client.

SGS Job No.: NP22-002236 - NB

Date of Sample Received: 07 May 2022

Testing Period: 07 May 2022 - 17 May 2022

Test Requested: Selected test(s) as requested by the client.

Test Method(s): Please refer to next page(s). Test Result(s): Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Ashley Zhang Approved Signatory





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Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ NGB22-009047.001 Silvery metal

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP -OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	5
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series

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- (3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm2. The sample coating is considered to contain Cr(VI)
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-Cr(VI) 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

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Attachment:

SH, SHD, 1.25, 51021, DF14, DF13, XH , 1.0, GH, ZH, PH, PHB, PA, PHSD, DF11, SMP, SMW, SMH, 51047, 51146, FI-S, PHD, YHD200, PA, SMH200, SMH200-H, XH/TJC3, XA, HA, YH200, 20039WR, dubang 2.0, XHB, XHD, XHE, EH, EI, small 4P, SCN, SCND, JC20, 5264, 5267, 5268, SZN, SAN, JC15, JC25, 5102, 25045HP, SMP250, SMW250, 25048HS, SM, TJC8, 杜邦2.54, TJC8A, dubang-b, TIC8H, 5051, 2510, MSM, 43640, 43645, 43020, 43025, 5500, 5600, VHR, 35156, 2139, 3.96, 90331, 5195, 5196, 39612, FL, 5557, 5559, 5566, 5569, SL, RV42, EL, YL, small EL, 8981, BIG 4P, 5058, 5.08, L6.2, VL, VLP/VLR, TJC2B, TJC4, TJC1, 1806, MX3.0, 1.58, 51005, 51006, BH3.5, TJC2A, BH4.0, 63080, TJC15, A4203, CL014, OTP, MKH, SMF, Cy-X201, 35108, 35150, 35151, 35965, 42021, 42022, 42002, 35955, SA, SCS, 35189, 35196, CH10, CH2.5, SLR, YHL500, YWL500, FFC, FPC, 20030, 250, LGC, S11, YH025, 543, SLP, 110, 2.8, 6.3, 25415, 5197, 5198, SCS NH, XHQ, 42474, 42475, QH, NV, 50300, 50301, 5025, 3191, 5199, STV5, YHL500, F001, F002, D440, D600, D620, D700, D220, D230, D250, D480, D520, D630, D430, D400, D450, U-T, F1001-T, SIN-T, 774, 773, 778, 294, TU(SNB), TO-JTK(RV), MDD, FDD, TG-JT, IDC, AUTO, CONNECTOR, DJ70, DT04, DT06, UY/K1, UY2/K2, UR/K3, UR2, UB/K4, UB2A, UG/K5, U1R/K8, U1B/K9, HJKT10, UDW2, 314, A5001, A5002, MC100, FPC2.54, SGN, PHR, ZHR, 205, 5.2, C1801, 2060, A5003, ME020, ME010, FPC/FFC, B2541, 1971845, 1971846, 2232043, 2232511, 1971895, 1971896, JWPF, SY, Molex1.5, ME0100, RAST, 35524, RCY, LC, VR, SHJ, SHL, DF19, ACH, SDN, 35182, IL-Z, SATA, XSR, ZE, ZND, ZPD, SFH, PUD, AMP2.0, 35507, DF3, PND, RE, RA, RF, SUH, SYP/SYR, HIF3, MC100/ME020/ME010, F2541, A5005, A5006, A5007, A2509, A25010, A25011, A25012, B13001, B76201, VHB, VHC, VHD 1969738, 1969740, 1971845, 1971846, 1971895, 1971896, 1971946 thru 1971949, 1971954 thru 1971957, 2232008 thru 2232011, 2232000 thru 2232003, 2232016 thru 2232019, 1971962 thru 1971965, 2232024 thru 2232027, 2232289 thru 2232292, 2232043 thru 2232074, 2232298 thru 2232301, 2232511, 2232532, 2232557, 2232559, 2232560, 2232562, 2232563, 2232565, 2232566, 2232568, 2232569, 2232571, 2232572, 2232574, 2232575, 2232577, 2232578, 2232580, 2232581, 2232583, 2232584, 2232586, 2232587, 2232589, 2232590, 2232592, 2232593, 2232595, 2232596, 2232598, 2232599, 2232601, 2232602, 2232604, 2232605, 2232607, 2232608, 2232611 thru 2232682, 2292457, 2292458, 1064, 2064, 3064, 1080, 2080, 3080, 1100, 2100, 3100, 1120, 2120, 3120, 1150, 2150, 3150, 1180, 2180, 3180, 1230, 2230, 3230, 1250, 2250, 3250, 1280, 2280, 3280, 1300, 2300, 3300, 1480, 2480, 3480, 1630, 2630, 3630, 1780, 2780, 3780, 1950, 2950, 3950, 1010, 2010, 3010, 1013, 2013, 3013, 1015, 2015, 3015, 1016, 2016, 3016, 1025, 2025, 3025, 1035, 2035, 3035, 1045, 2045, 3045, 1058, 2058, 3058, 1999, 2999, 3999, 401, 402, 403, 503, TPA, BX A1005 A1006 A1007 A1008 A1001 A1002 A1003 A1004 A1009 A1251 A1252 A1253 A1254 A1255 A1256 A1257 A1258 A1259 A1501 A1502 A1503 A1504 A1505 A1506 A1507 A1508 A1509 A2001 A2002 A2003 A2004 A2005 A2006 A2007 A2008 A2009 A2010 A2011 A2012 A2503 A2015 A2017 A2018 A2501 A2502 A2505 A2013 A2014 A2016 A2504 A2506 A2507 A25010 A25011 A25012 A25013 A25014 A25015 A25016 A25017 A25018 A2541 A2508 A2509 A2542 A2543 A2544 A2545 A2546 A2547A2548 A2549 A3001 A3002 A3003 A3004 A3005 A3006 A3007 A3008 A3009 A3302 A3303 A3304 A3306 A3308 A3301 A3305 A3307 A3309 A3961 A3962 A3963 A3964 A3965 A3966 A3967 A3968 A3969 A4201 A4202 A4203 A4204 A4205 A4206 A4207 A4208 A4209 A5001 A5002 A5003 A5004 A5005 A5006 A5007 A5008 A5009 A5081 A5082 A5083 A5084 A5085 A5086 A5087 A5088 A5089 A6501 A6502 A6503 A6504 B1256 A6505 A6506 A6507 A6508 A6509 B1251 B1252 B1253 B1254 B1255 B1257 B1258 B1259 B1501 B1502 B1503 B1504 B1505 B1506 B1507 B1508 B1509 B2001 B2002 B2003 B2004 B2005 B2006 B2007 B2008 B2009 B2501 B2502 B2503 B2504 B2505 B2506 B2507



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B2508 B2509 B2541 B2542 B2543 B2544 B2545 B2546 B2547 B2548 B2549 B76201 B76202 B76205 B76206 B76207 B76208 B76209 B13001 B13002 B13003 B76203 B76204 B13004 B13005 B13008 B13009 C01581 C01582 C01583 C01584 C01585 C01586 C01587 C01588 B13006 B13007 C1502 C1503 C01589 C1251 C1252 C1253 C1254 C1255 C1256 C1257 C1258 C1259 C1501 C1505 C1506 C1507 C1508 C1509 C2001 C2002 C2003 C2004 C2005 C2006 C2007 C1504 C2008 C2009 C2501 C2502 C2503 C2504 C2505 C2506 C2507 C2508 C2509 C25010 C25011 C25012 C25013 C25014 C25015 C25016 C25017 C25018 C2541 C2542 C2543 C2544 C2545 C2546 C2547 C2548 C2549 C3001 C3002 C3003 C3004 C3005 C3006 C3007 C3008 C3009 C3501 C3502 C3503 C3505 C3506 C3507 C3508 C3509 C3681 C3682 C3683 C3684 C3685 C3504 C3965 C3686 C3687 C3688 C3689 C3961 C3962 C3963 C3964 C3966 C3967 C3968 C3969 C4001 C4002 C4003 C4004 C4005 C4006 C4007 C4008 C4009 C4141 C4142 C4143 C4144 C4145 C4146 C4147 C4148 C4149 C4201 C4202 C4203 C4204 C4205 C4206 C4207 C4208 C4209 C4501 C4502 C4503 C4504 C4505 C4506 C4507 C4508 C4509 C5001 C5002 C5003 C5004 C5005 C5006 C5007 C5008 C5009 C6201 C6202 C6203 C6204 C6205 C6206 C6207 C6208 C6209 C6351 C6352 C6353 C6354 C6355 C6356 C6357 C6358 C6359 D2801 D2802 D2803 D2804 D2805 D2806 D2807 D2808 D2809 D4801 D4802 D4803 D4804 D4805 D4806 D4807 D4808 D4809 D5201 D5202 D5203 D5204 D5205 D5206 D5207 D5208 D5209 D6301 D6306 D6302 D6303 D6304 D6305 D6307 D6308 D6309 D6201 D6202 D6203 D6204 D6205 D6206 D6207 D6208 D6209 D7001 D7002 D7003 D7004 D7005 D7006 D7007 D7008 D7009 F0502 F0503 F0504 F0505 F0506 F0507 F0508 F0509 F05010 F05011 F05012 F0501 F05013 F05014 F05015 F05016 F05017 F05018 F1001 F1002 F1003 F1004 F1005 F1006 F1007 F10011 F10012 F10013 F10014 F10015 F10016 F10017 F1008 F1009 F10010 F10018 F2541 F2542 F2543 F2544 F2545 F2546 F2547 F2548 F2549 P0001 P0002 P0003 P0004 P0005 P0006 P0008 P0009 P0012 P0014 P0015 P0007 P0010 P0011 P0013 P0016 P0017 P0018 P0019 P0020 P0021 P0022 P0023 P0024 P0025 P0026 P0027 D2301 D2303 D2304 D2305 D2302 D6005 D6008 D2306 D2307 D2308 D2309 D6001 D6002 D6003 D6004 D6006 D6007 D6009 D2201 D2202 D2203 D2204 D2205 D2206 D2207 D2208 D2209



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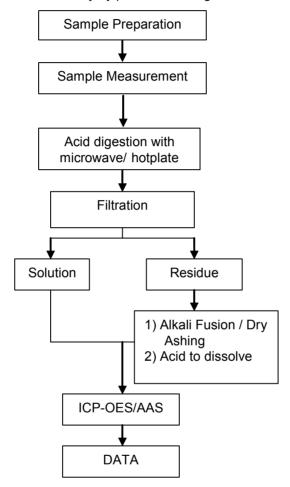
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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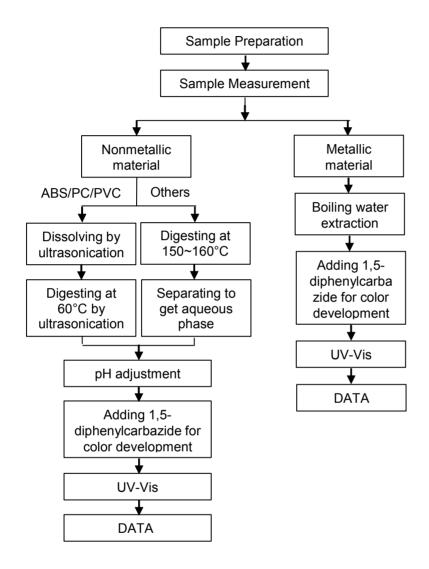
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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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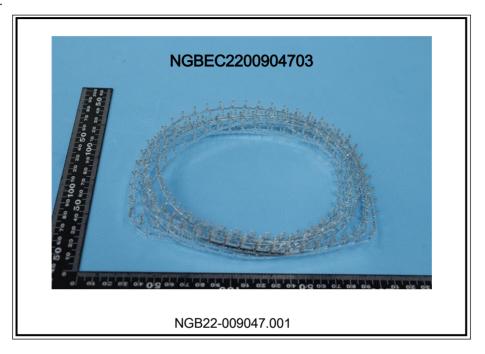


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