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est Report	No.:	CANEC25001117301	Date:	Jan 17, 2	025 Page 1 of
Client Name:	3F ELECTRON	NICS INDUSTRY CORP.,	LTD .		
		NG ROAD, LIYUHE INDU NGMING NEW DISTRIC			
Sample Name:	Т	nned copper wire			
Lot No.:	20	025-01-10			
The above samp	ple(s) and infor	nation were provided by the	ne client.		
SGS Job No.:	S	ZP25-001936			
Sample Receivir	ng Date: Ja	an 14, 2025			
Testing Period:	Ja	an 14, 2025 ~ Jan 17, 202	5		
Test Requested	: S	elect test(s) as requested	by the client.		
Test Method(s):		Please refer to next page(s).			
Test Result(s):	Р	ease refer to next page(s)	).		
Test Requiren	nent				Conclusion
	· · ·	/863 amending Annex II to exavalent chromium, Poly			

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

(PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate

(DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl

Jany Zhong

phthalate (DIBP)

Jany Zhong Approved Signatory



Pass



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# **Test Report**

### No.: CANEC25001117301

Date: Jan 17, 2025

### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0011173-0001.C001	Metal wire with silvery plating

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

### EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

# **Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Test Item(s)		Limit	Unit(s)	MDL	A1
Octabrominated dip (OctaBDE)	henyl ether	-	mg/kg	25	ND
Nonabrominated di (NonaBDE)	phenyl ether	-	mg/kg	25	ND
Decabrominated di (DecaBDE)	ohenyl ether	-	mg/kg	25	ND
Di-2-Ethyl Hexyl Ph	Di-2-Ethyl Hexyl Phthalate (DEHP)		mg/kg	50	ND
Benzyl Butyl Phthal	Benzyl Butyl Phthalate (BBP)		mg/kg	50	ND
Dibutyl Phthalate (E	Dibutyl Phthalate (DBP)		mg/kg	50	ND
Diisobutyl Phthalate	Diisobutyl Phthalate (DIBP)		mg/kg	50	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.
- (3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm<sup>2</sup>. 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/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> 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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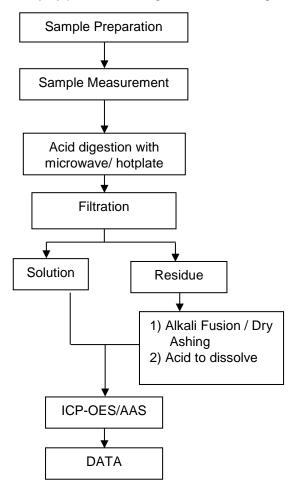
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No.: CANEC25001117301

Date: Jan 17, 2025

### **Elements Testing Flow Chart**

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





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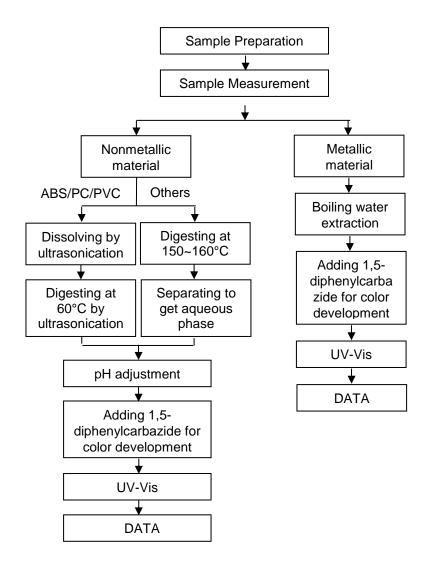
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## Test Report ATTACHMENTS

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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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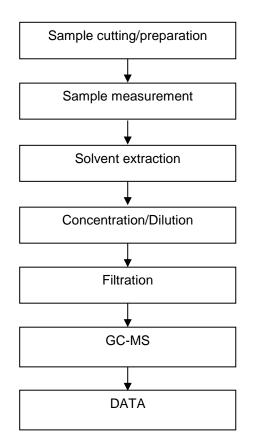
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#### No.: CANEC25001117301

#### **PBB/PBDE/Phthalates Testing Flow Chart**





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\*\*\* End of Report \*\*\*



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