

# Verification Report No.: TAOEC25002932401 Date:

Date: Apr 29, 2025

Client Name: Jiangsu DINGS' Intelligent Control Technology Co., LTD Client Address: No. 2850 Luheng Road, Economic Development Zone, Changzhou, Jiangsu, 213025 China

Sample Name:Slotless Brushless DC MotorTested Basic Model No.:16ZWWC40T-27Client Ref. Information:10/12/14/16/22/28/36/42The above sample(s) and information were provided by the client.SGS Job No.:SHP25-010158

363 300 100	SHF23-010136
Sample Receiving Date:	Apr 11, 2025
Verification Period:	Apr 11, 2025 ~ Apr 27, 2025
Verification Requested:	With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.
Verification Method(s):	Please refer to next page(s).
Verification Result(s):	Please refer to next page(s).
Verification Requested: Verification Method(s):	With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU. Please refer to next page(s).

## **Test Result Summary:**

Test Items	Conclusion
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	Pass
(DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl	
phthalate (DIBP)	



Signed for and on behalf of SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

10, Sun

Alice Sun Approved Signatory

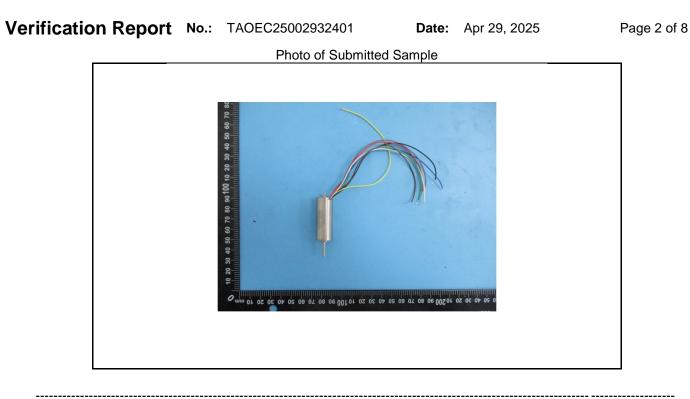




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### Verification Method(s):

- 1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
  - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES,UV-Vis and GC-MS.



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**Verification Part Description:** 

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	TAO25-0029324-0001.C001	Silvery metal
SN2	A2	TAO25-0029324-0001.C002	Black plastic(jacket)
SN3	A3	TAO25-0029324-0001.C003	Red plastic(jacket)
SN4	A4	TAO25-0029324-0001.C004	Gray plastic(jacket)
SN5	A5	TAO25-0029324-0001.C005	Yellow plastic(jacket)
SN6	A6	TAO25-0029324-0001.C006	Blue plastic(jacket)
SN7	A7	TAO25-0029324-0001.C007	White plastic(jacket)
SN8	A8	TAO25-0029324-0001.C008	Green plastic(jacket)
SN9	A9	TAO25-0029324-0001.C009	Brown plastic(jacket)
SN10	A10	TAO25-0029324-0001.C010	White paper
SN11	A11	TAO25-0029324-0001.C011	Copper enamelled wire
SN12	A12	TAO25-0029324-0001.C012	Silvery metal
SN13	A13	TAO25-0029324-0001.C013	Copper-colored metal
SN14	A14	TAO25-0029324-0001.C014	Silvery metal
SN15	A15	TAO25-0029324-0001.C015	Silvery metal
SN16	A16	TAO25-0029324-0001.C016	Black magnet
SN17	A17	TAO25-0029324-0001.C017	Silvery metal
SN18	A18	TAO25-0029324-0001.C018	Silvery metal(inner core)
SN19	A19	TAO25-0029324-0001.C019	Silvery metal(steel ball)
SN20	A20	TAO25-0029324-0001.C020	Transparent adhesive
SN21	A21	TAO25-0029324-0001.C021	Silvery metal
SN22	A22	TAO25-0029324-0001.C022	Silvery metal(soldering tin)
SN23	A23	TAO25-0029324-0001.C023	Green PCB



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Verification Result(s):

(Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL							
Hg	BL							
Cd	BL							
Cr(VI)▼	ND	BL						
PBB		BL						
PBDE		BL						
DEHP		BL						
BBP		BL						
DBP		BL						
DIBP		BL						
Conclusion	PASS							

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	15966	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	ND	ND	ND	ND
PBB	BL	BL	BL					BL
PBDE	BL	BL	BL					BL
DEHP	BL	BL	BL					BL
BBP	BL	BL	BL					BL
DBP	BL	BL	BL					BL
DIBP	BL	BL	BL					BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23
Pb	BL						
Hg	BL						
Cd	BL						
Cr(VI)▼	ND	BL	ND	BL	ND	ND	BL
PBB				BL			ND
PBDE				BL			ND
DEHP				BL			ND
BBP				BL			ND
DBP				BL			ND
DIBP				BL			ND
Conclusion	PASS						



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2检测



### Date: Apr 29, 2025

#### Notes:

- (1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):
  - (a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Annex A as below table.

Element	Polymers	Metals	Composite Materials
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Br	BL ≤ (300-3σ)< X	Not applicable	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".
- (c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL= Over Limit, IN (The symbol X marks the region)=Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.
- (d) The EDXRF screening test for elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

### (3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.</li>
(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10  $\mu$ g/cm<sup>2</sup>.

- (c) ▼ =Metal sample
  - 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 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination



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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.

- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.

(6) ▲According to the declaration from the client, Lead (Pb) in No.A13 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight.

More information about exemption can be found via the following link:

https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf

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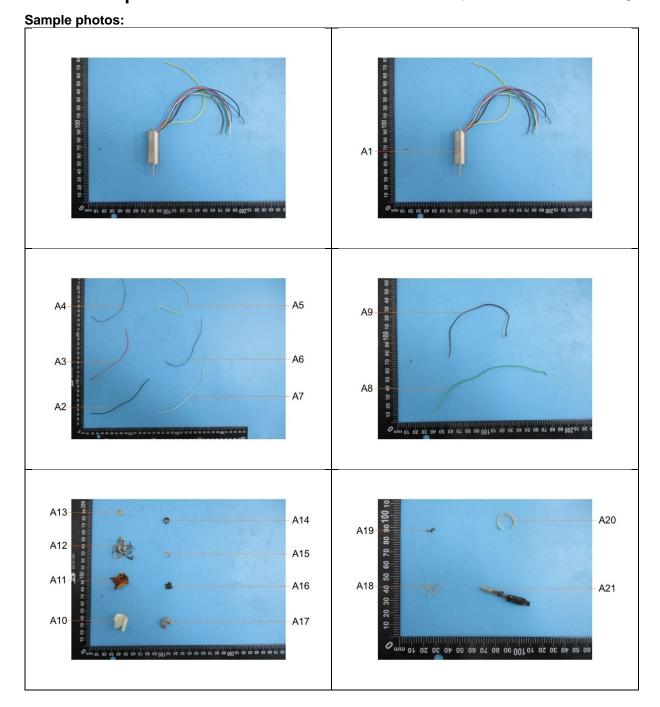
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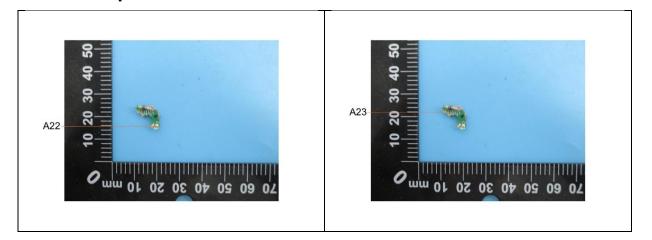
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