

Client Name: Jiangsu DINGS' Intelligent Control Technology Co., LTD

Client Address: No. 2850 Luheng Road, Economic Development Zone, Changzhou, Jiangsu, 213025 China

Sample Name: Stepper Lead Screw Linear Actuator/Stepper Ball Screw Linear Actuator/Linear Module/Gripper

Tested Basic Model No.: 17E2115Y4-85SNSN-150SZ

Tested Extended Model No.: 17N2115Q4-173SMNS-150SZ/17C2115AA4-100SMNS-150SZ/17K2115K4-100SMNS-150SZ/17E2115BS84-180RNN-030SZ/DLM50-17E2110L4-N-001SZ/DMEG12-17N2115R4-R-101SZ

Client Ref. Information: E/N/C/K/BS/DLM/DSM/DSLM/DWM/DLG/DMEG

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

SGS Job No.: SHP24-041710

Sample Receiving Date: Jan 10, 2025

Verification Period: Jan 10, 2025 ~ Jan 14, 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).

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

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

Alice Sun

Alice Sun

Approved Signatory

scan to see the report



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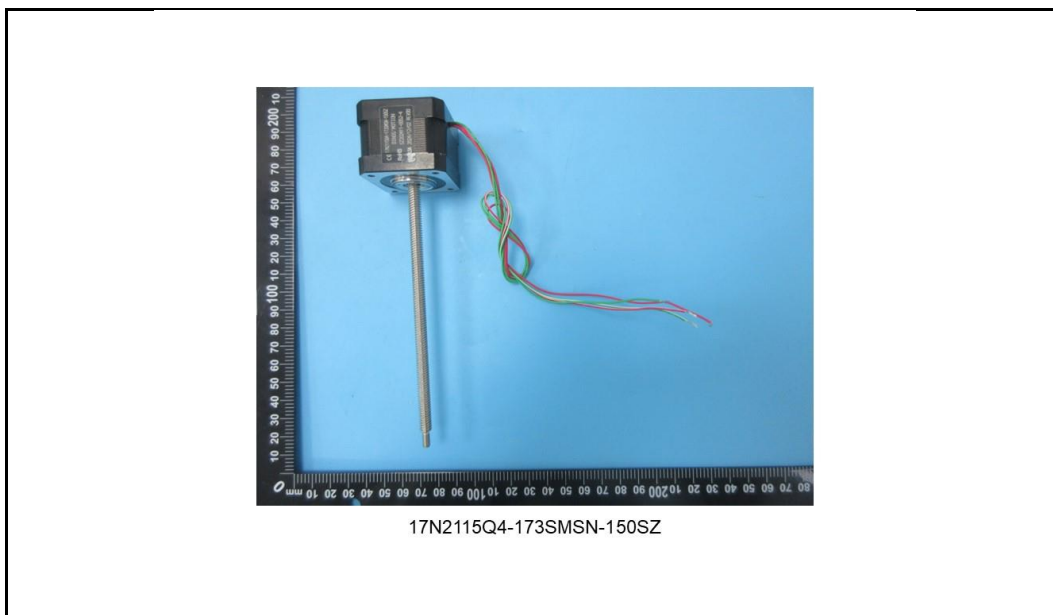
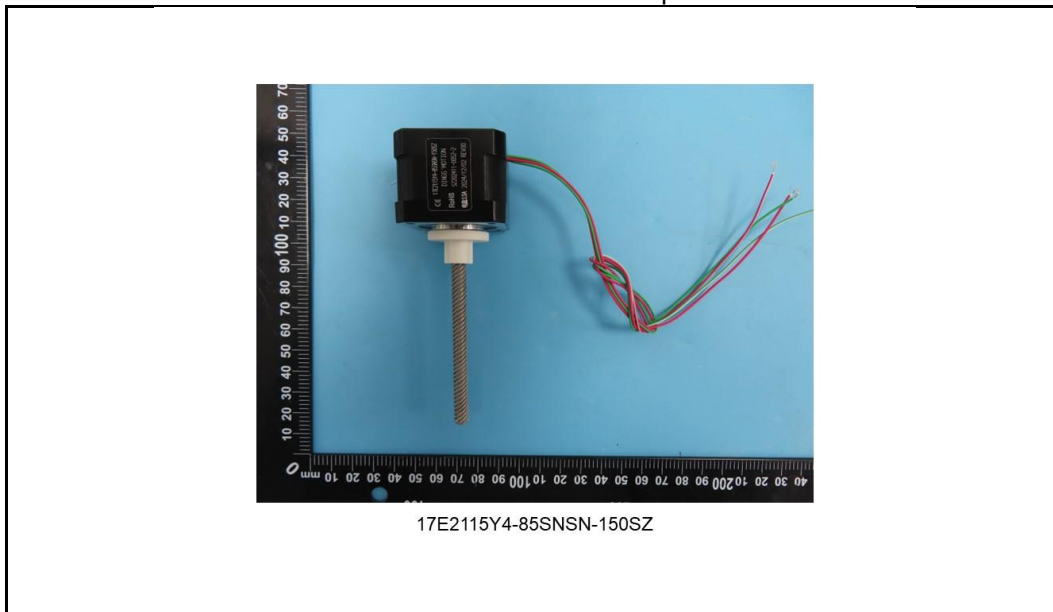
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Photo of Submitted Sample



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17C2115AA4-100SM5N-150SZ



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DLM50-17E2110L4-N-001SZ



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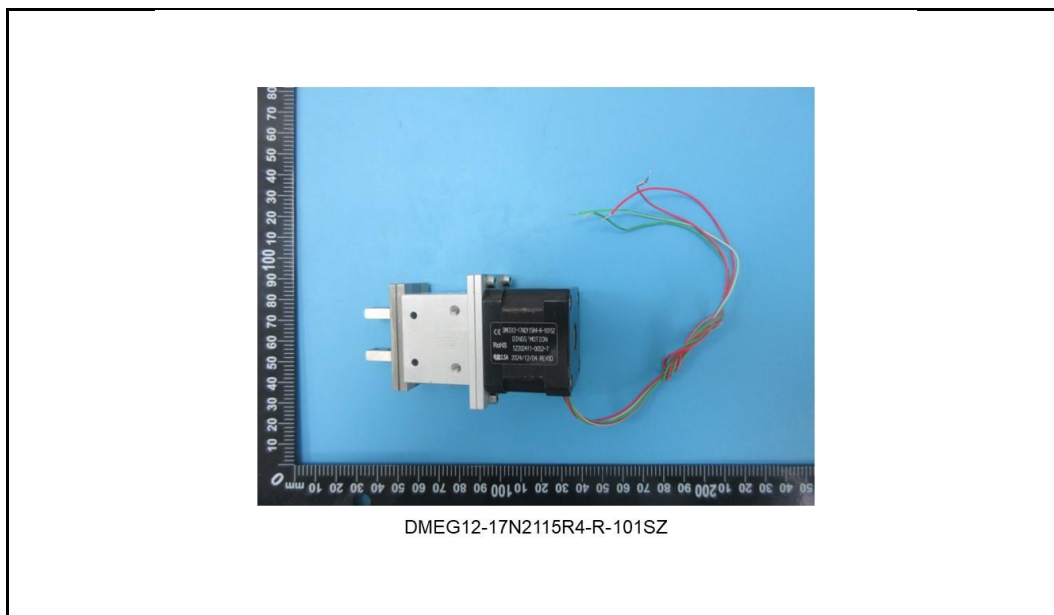
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### Verification Method(s):

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	TAO24-0102746-0001.C001	Silvery metal
SN2	A2	TAO24-0102746-0001.C002	White plastic
SN3	A3	TAO24-0102746-0001.C003	Black/white plastic(label)
SN4	A4	TAO24-0102746-0001.C004	Black metal
SN5	A5	TAO24-0102746-0001.C005	Black metal
SN6	A6	TAO24-0102746-0001.C006	Silvery plastic(label)
SN7	A7	TAO24-0102746-0001.C007	White plastic
SN8	A8	TAO24-0102746-0001.C008	Copper enamelled wire
SN9	A9	TAO24-0102746-0001.C009	White plastic
SN10	A10	TAO24-0102746-0001.C010	Silvery metal
SN11	A11	TAO24-0102746-0001.C011	Silvery metal(screw)
SN12	A12	TAO24-0102746-0001.C012	Silvery metal
SN13	A13	TAO24-0102746-0001.C013	Silvery metal
SN14	A14	TAO24-0102746-0001.C014	Copper-colored metal
SN15	A15	TAO24-0102746-0001.C015	Silvery metal
SN16	A16	TAO24-0102746-0001.C016	Silvery metal
SN17	A17	TAO24-0102746-0001.C017	Silvery metal
SN18	A18	TAO24-0102746-0001.C018	Silvery metal(steel ball)
SN19	A19	TAO24-0102746-0001.C019	Green PCB
SN20	A20	TAO24-0102746-0001.C020	Silvery metal(soldering tin)
SN21	A21	TAO24-0102746-0001.C021	Beige plastic
SN22	A22	TAO24-0102746-0001.C022	Silvery metal(inner core)
SN23	A23	TAO24-0102746-0001.C023	Green plastic(jacket)
SN24	A24	TAO24-0102746-0001.C024	Green/white plastic
SN25	A25	TAO24-0102746-0001.C025	Red plastic(jacket)
SN26	A26	TAO24-0102746-0001.C026	Red/white plastic(jacket)
SN27	B1	TAO24-0102746-0002.C001	Beige plastic
SN28	C1	TAO24-0102746-0003.C001	Silvery metal
SN29	C2	TAO24-0102746-0003.C002	White plastic
SN30	C3	TAO24-0102746-0003.C003	Black plastic
SN31	C4	TAO24-0102746-0003.C004	Black metal
SN32	C5	TAO24-0102746-0003.C005	Silvery metal(screw)
SN33	C6	TAO24-0102746-0003.C006	Silvery metal
SN34	D1	TAO24-0102746-0004.C001	Black metal
SN35	D2	TAO24-0102746-0004.C002	Yellow plastic
SN36	D3	TAO24-0102746-0004.C003	Silvery metal
SN37	D4	TAO24-0102746-0004.C004	Black metal
SN38	D5	TAO24-0102746-0004.C005	Silvery metal
SN39	E1	TAO24-0102746-0005.C001	Silvery metal
SN40	E2	TAO24-0102746-0005.C002	Black plastic
SN41	E3	TAO24-0102746-0005.C003	Copper-colored metal(inner core)
SN42	E4	TAO24-0102746-0005.C004	Blue plastic(jacket)
SN43	E5	TAO24-0102746-0005.C005	Red plastic(jacket)
SN44	E6	TAO24-0102746-0005.C006	Black plastic(jacket)
SN45	E7	TAO24-0102746-0005.C007	Green plastic(jacket)
SN46	E8	TAO24-0102746-0005.C008	Black plastic
SN47	E9	TAO24-0102746-0005.C009	Silvery metal
SN48	E10	TAO24-0102746-0005.C010	White plastic



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SN ID	Sample No.	SGS Sample ID	Description
SN49	E11	TAO24-0102746-0005.C011	Silvery metal
SN50	E12	TAO24-0102746-0005.C012	Silvery metal(steel ball)
SN51	E13	TAO24-0102746-0005.C013	Black rubber
SN52	F1	TAO24-0102746-0006.C001	Black metal
SN53	F2	TAO24-0102746-0006.C002	Silvery metal(screw)
SN54	F3	TAO24-0102746-0006.C003	Silvery metal
SN55	F4	TAO24-0102746-0006.C004	Beige plastic
SN56	F5	TAO24-0102746-0006.C005	Silvery metal(screw)
SN57	F6	TAO24-0102746-0006.C006	Copper-colored metal
SN58	F7	TAO24-0102746-0006.C007	Black plastic
SN59	F8	TAO24-0102746-0006.C008	Silvery metal
SN60	F9	TAO24-0102746-0006.C009	Yellow plastic
SN61	F10	TAO24-0102746-0006.C010	Silvery metal
SN62	F11	TAO24-0102746-0006.C011	Silvery metal(steel ball)
SN63	F12	TAO24-0102746-0006.C012	Beige plastic
SN64	G1	TAO24-0102746-0007.C001	Silvery metal(screw)
SN65	G2	TAO24-0102746-0007.C002	Silvery metal(steel ball)
SN66	G3	TAO24-0102746-0007.C003	Silvery metal
SN67	G4	TAO24-0102746-0007.C004	Black metal
SN68	G5	TAO24-0102746-0007.C005	Silvery metal
SN69	G6	TAO24-0102746-0007.C006	Black metal



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### Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

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

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	15906▲	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	ND	ND	BL	BL	ND	ND
PBBs	BL	---	---	---	---	---	---	---
PBDEs	BL	---	---	---	---	---	---	---
DEHP	BL	---	---	---	---	---	---	---
BBP	BL	---	---	---	---	---	---	---
DBP	BL	---	---	---	---	---	---	---
DIBP	BL	---	---	---	---	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	BL	BL	BL	BL	BL	BL
PBBs	---	---	ND	---	BL	---	BL	BL
PBDEs	---	---	ND	---	BL	---	BL	BL
DEHP	---	---	ND	---	BL	---	BL	BL
BBP	---	---	ND	---	BL	---	BL	BL
DBP	---	---	ND	---	BL	---	BL	BL
DIBP	---	---	ND	---	BL	---	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26	B1	C1	C2	C3	C4	C5
Pb	BL	BL	BL	BL	BL	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	BL	BL	BL	ND



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Test Item(s)	A25	A26	B1	C1	C2	C3	C4	C5
PBBs	BL	BL	BL	---	BL	BL	---	---
PBDEs	BL	BL	BL	---	BL	BL	---	---
DEHP	BL	BL	BL	---	BL	BL	---	---
BBP	BL	BL	BL	---	BL	BL	---	---
DBP	BL	BL	BL	---	BL	BL	---	---
DIBP	BL	BL	BL	---	BL	BL	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	C6	D1	D2	D3	D4	D5	E1	E2
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	BL	ND	ND	ND	ND	BL
PBBs	---	---	BL	---	---	---	---	BL
PBDEs	---	---	BL	---	---	---	---	BL
DEHP	---	---	BL	---	---	---	---	BL
BBP	---	---	BL	---	---	---	---	BL
DBP	---	---	BL	---	---	---	---	BL
DIBP	---	---	BL	---	---	---	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	E3	E4	E5	E6	E7	E8	E9	E10
Pb	BL	BL	BL	BL	BL	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	BL	BL	BL	ND	ND
PBBs	---	BL	BL	BL	BL	BL	---	BL
PBDEs	---	BL	BL	BL	BL	BL	---	BL
DEHP	---	BL	BL	BL	BL	BL	---	BL
BBP	---	BL	BL	BL	BL	BL	---	BL
DBP	---	BL	BL	BL	BL	BL	---	BL
DIBP	---	BL	BL	BL	BL	BL	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	E11	E12	E13	F1	F2	F3	F4	F5
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	BL	BL	ND	ND	BL	ND
PBBs	---	---	BL	---	---	---	BL	---
PBDEs	---	---	BL	---	---	---	BL	---
DEHP	---	---	BL	---	---	---	BL	---
BBP	---	---	BL	---	---	---	BL	---
DBP	---	---	BL	---	---	---	BL	---
DIBP	---	---	BL	---	---	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Test Item(s)	F6	F7	F8	F9	F10	F11	F12	G1
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	ND	BL	ND	ND	BL	ND
PBBs	---	BL	---	BL	---	---	BL	---
PBDEs	---	BL	---	BL	---	---	BL	---
DEHP	---	BL	---	BL	---	---	BL	---
BBP	---	BL	---	BL	---	---	BL	---
DBP	---	BL	---	BL	---	---	BL	---
DIBP	---	BL	---	BL	---	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	G2	G3	G4	G5	G6
Pb	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL
Cr(VI)▼	ND	ND	ND	ND	ND
PBBs	---	---	---	---	---
PBDEs	---	---	---	---	---
DEHP	---	---	---	---	---
BBP	---	---	---	---	---
DBP	---	---	---	---	---
DIBP	---	---	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS



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**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	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(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.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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 µg/cm².

(c) ▼ =Metal sample

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



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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.A14 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\(EN\).pdf](https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20(EN).pdf)

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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**Sample photos:**



17E2115Y4-85SNSN-150SZ



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17C2115AA4-100SMSN-150SZ



17K2115K4-100SMSN-150SZ



17E2115BS84-180RNN-030SZ



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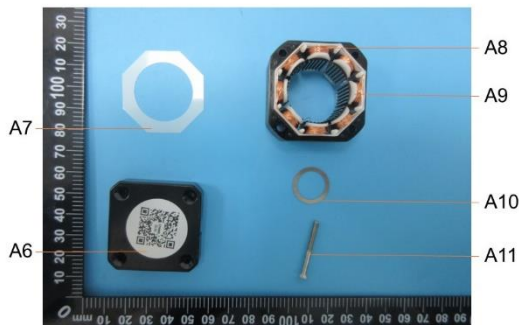
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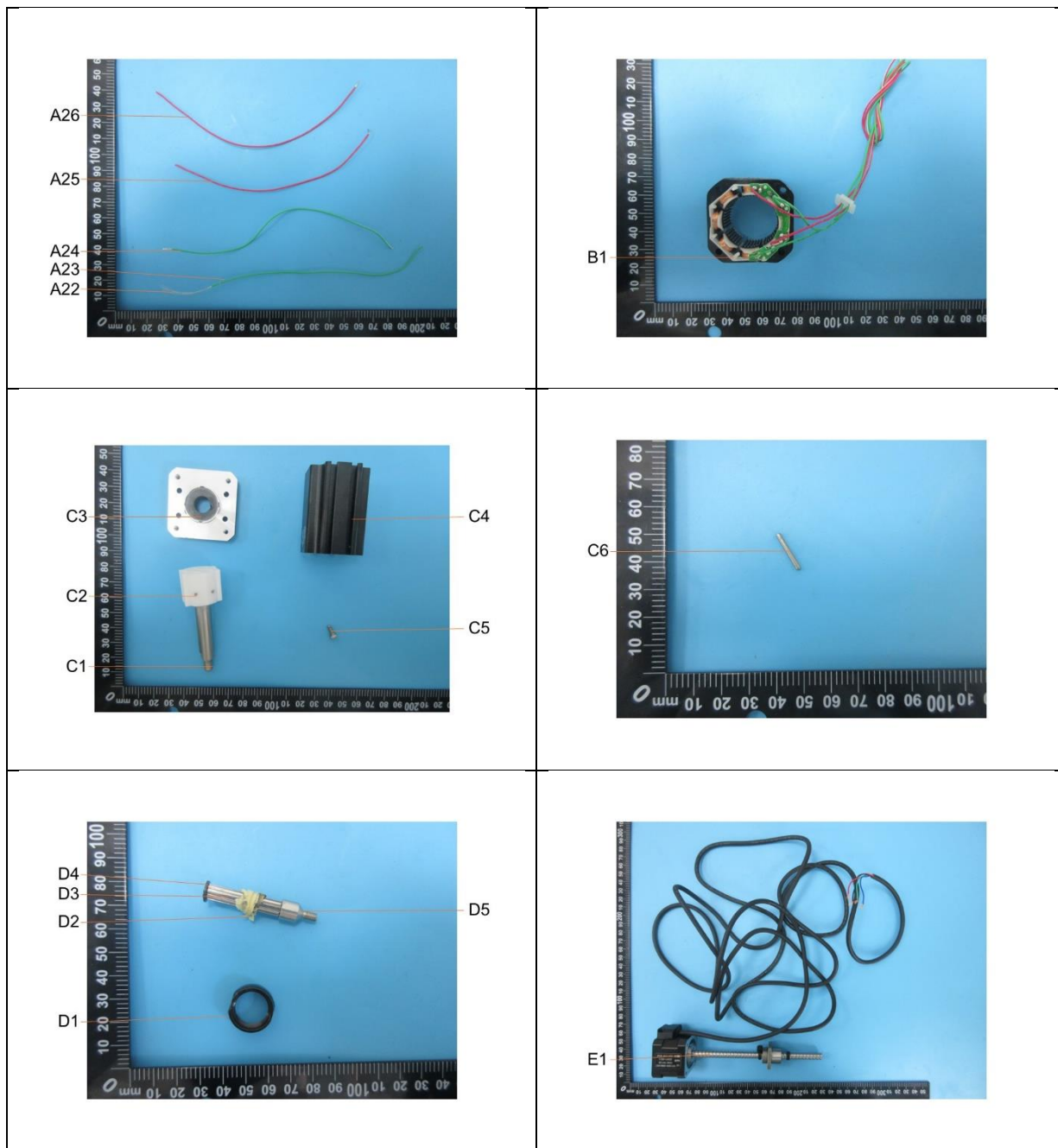
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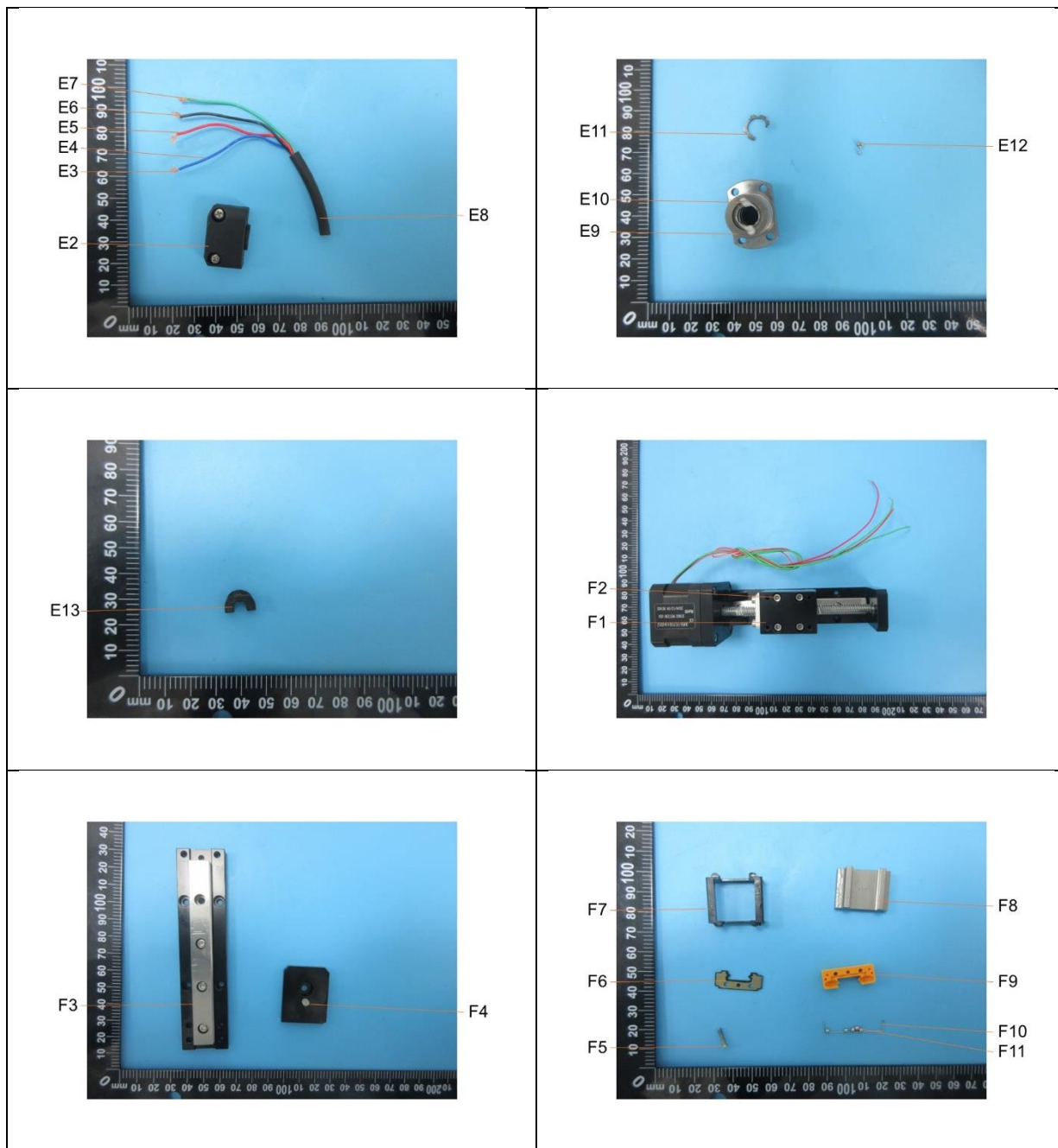
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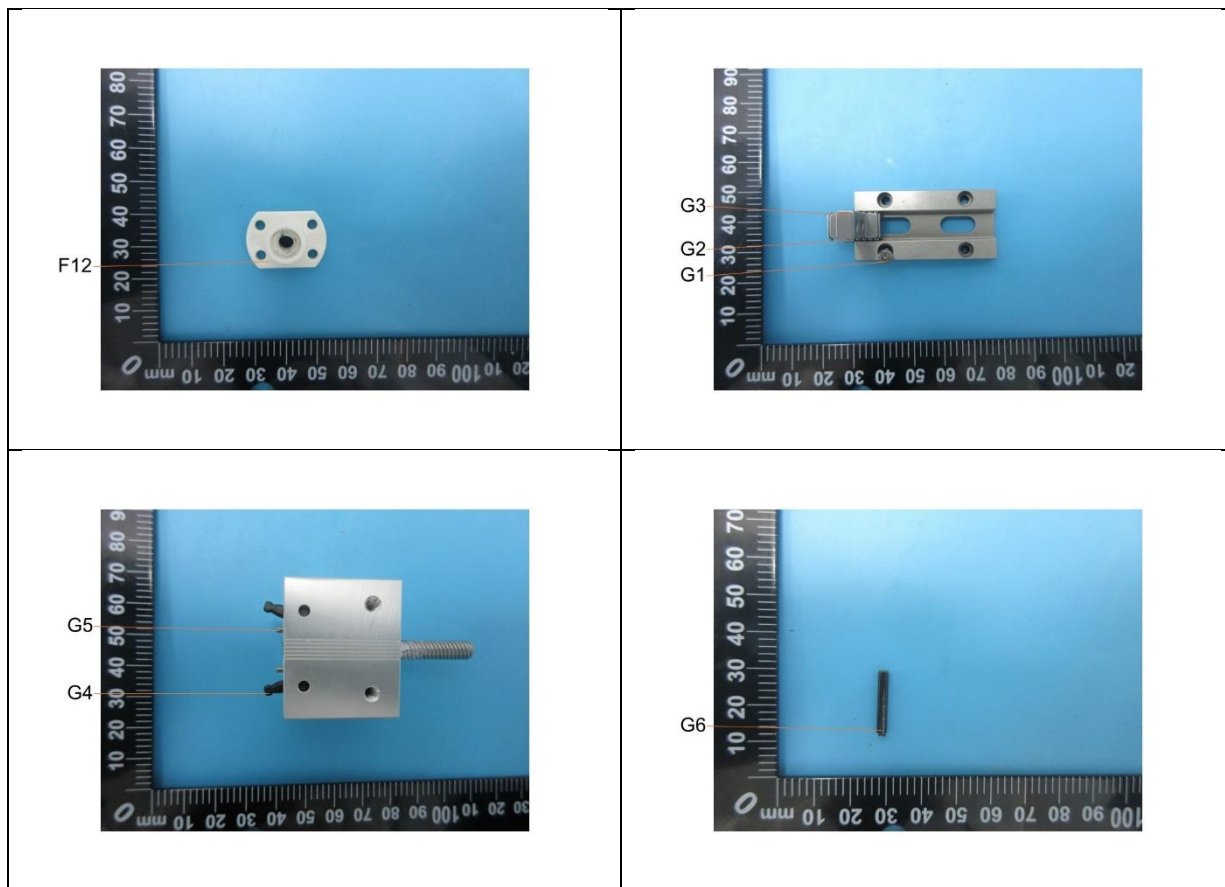
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