

Verification Report No.: TAOEC25002931901 Date: Apr 30, 2025 Page 1 of 9

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

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

Sample Name: Brushless DC Motor

Tested Basic Model No.: 42ZWS75X-1

Client Ref. Information: 12/16/22/28/36/42/57/60/86/110/130 The above sample(s) and information were provided by the client.

SGS Job No.: SHP25-010158 Sample Receiving Date: Apr 11, 2025

Verification Period: Apr 11, 2025 ~ Apr 29, 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	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.

Justin Zhang
Approved Signatory

Instin 2 hang





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101

中国・山东・青岛市崂山区株洲路143号通标中心 邮编: 2661

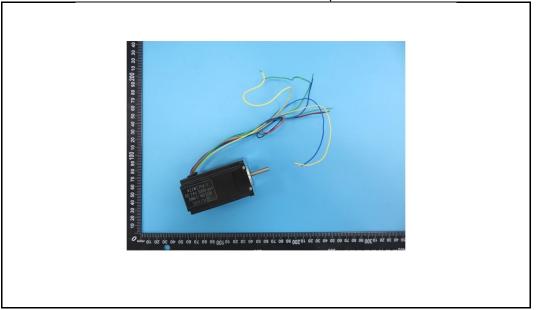
t (86-532) 68999888

www.sgsgroup.com.cn sgs.china@sgs.com



Verification Report No.: TAOEC25002931901 **Date:** Apr 30, 2025 Page 2 of 9





Verification Method(s):

- 1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this
 - (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.





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sqs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone (86-755) 2377 1443.

nticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,



Verification Report No.: TAOEC25002931901 **Date:** Apr 30, 2025 Page 3 of 9

Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	TAO25-0029319-0001.C001	Black/white plastic(label)
SN2	A2	TAO25-0029319-0001.C002	Silvery metal
SN3	A3	TAO25-0029319-0001.C003	Silvery metal
SN4	A4	TAO25-0029319-0001.C004	Black metal
SN5	A5	TAO25-0029319-0001.C005	Silvery metal(inner core)
SN6	A6	TAO25-0029319-0001.C006	Blue plastic(jacket)
SN7	A7	TAO25-0029319-0001.C007	Green plastic(jacket)
SN8	A8	TAO25-0029319-0001.C008	Yellow plastic(jacket)
SN9	A9	TAO25-0029319-0001.C009	Black plastic(jacket)
SN10	A10	TAO25-0029319-0001.C010	Red plastic(jacket)
SN11	A11	TAO25-0029319-0001.C011	Black body
SN12	A12	TAO25-0029319-0001.C012	Green PCB
SN13	A13	TAO25-0029319-0001.C013	Silvery metal(soldering tin)
SN14	A14	TAO25-0029319-0001.C014	Transparent adhesive
SN15	A15	TAO25-0029319-0001.C015	Transparent plastic
SN16	A16	TAO25-0029319-0001.C016	Black metal
SN17	A17	TAO25-0029319-0001.C017	Yellow plastic(jacket)
SN18	A18	TAO25-0029319-0001.C018	Blue plastic(jacket)
SN19	A19	TAO25-0029319-0001.C019	Green plastic(jacket)
SN20	A20	TAO25-0029319-0001.C020	Copper enamelled wire
SN21	A21	TAO25-0029319-0001.C021	Black rubber
SN22	A22	TAO25-0029319-0001.C022	Silvery metal
SN23	A23	TAO25-0029319-0001.C023	Black magnet
SN24	A24	TAO25-0029319-0001.C024	Silvery metal
SN25	A25	TAO25-0029319-0001.C025	Blue adhesive
SN26	A26	TAO25-0029319-0001.C026	Silvery metal
SN27	A27	TAO25-0029319-0001.C027	Silvery metal
SN28	A28	TAO25-0029319-0001.C028	Silvery metal
SN29	A29	TAO25-0029319-0001.C029	Silvery metal(steel ball)
SN30	A30	TAO25-0029319-0001.C030	Black plastic(pyrocondensation tube)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. And unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.

enticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101 中国 • 山东 • 青岛市崂山区株洲路143号通标中心

t (86-532) 68999888 www.sgsgroup.com.cn t (86-532) 68999888



Verification Report No.: TAOEC25002931901 **Date:** Apr 30, 2025 Page 4 of 9

Verification Result(s):

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

10111000		,	· · · · · · · · · · · · · · · · · · ·					
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)▼	BL	BL	ND	ND	BL	BL	BL	BL
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)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL							
Hg	BL							
Cd	BL							
Cr(VI)▼	BL	ND						
PBB	BL	BL	BL	ND		BL	BL	
PBDE	BL	BL	BL	ND		BL	BL	
DEHP	BL	BL	BL	ND		BL	BL	
BBP	BL	BL	BL	ND		BL	BL	
DBP	BL	BL	BL	ND		BL	BL	
DIBP	BL	BL	BL	ND		BL	BL	
Conclusion	PASS							

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL							
Hg	BL							
Cd	BL							
Cr(VI)▼	BL	BL	BL	BL	BL	ND	ND	ND
PBB	BL	BL	BL	BL	BL		BL	
PBDE	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							

Test Item(s)	A25	A26	A27	A28	A29	A30
Pb	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	ND	BL	ND	BL
PBB	BL					BL



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. And unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.

enticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101 中国・山东・青岛市崂山区株洲路143号通标中心

t (86-532) 68999888 t (86-532) 68999888 www.sgsgroup.com.cn



Verification Report No.: TAOEC25002931901 **Date:** Apr 30, 2025 Page 5 of 9

Test Item(s)	A25	A26	A27	A28	A29	A30
PBDE	BL					BL
DEHP	BL					BL
BBP	BL					BL
DBP	BL					BL
DIBP	BL					BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS









Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. And unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.

enticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,



Verification Report No.: TAOEC25002931901 Date: Apr 30, 2025 Page 6 of 9

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.

<u> </u>			
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.
 - (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 µg/cm².

- (c) ▼ =Metal sample
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/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 $\mu g/cm^2$). 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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101 中国・山东・青岛市崂山区株洲路143号通标中心 邮编: 266101 t (86–532) 68999888 www.sg t (86–532) 68999888 sgs.chi

www.sgsgroup.com.cn sgs.china@sgs.com



Verification Report No.: TAOEC25002931901 **Date:** Apr 30, 2025 Page 7 of 9

> 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/Hq/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.

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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sqs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

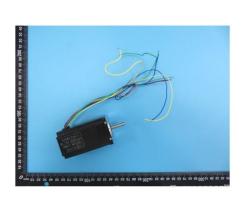
Attention: To check the authenticity of testing /inspection report & certificate, please content us at telephone (18, 75) 227 4448.

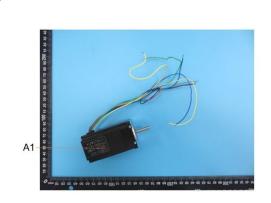
nticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

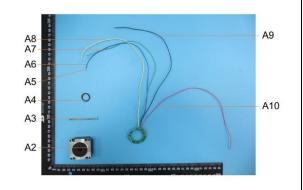


Verification Report No.: TAOEC25002931901 **Date:** Apr 30, 2025 Page 8 of 9

Sample photos:

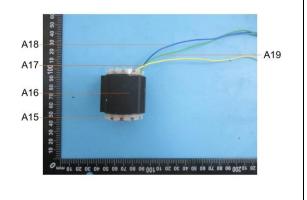














Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, places content uses the process (85.755) \$227.1418

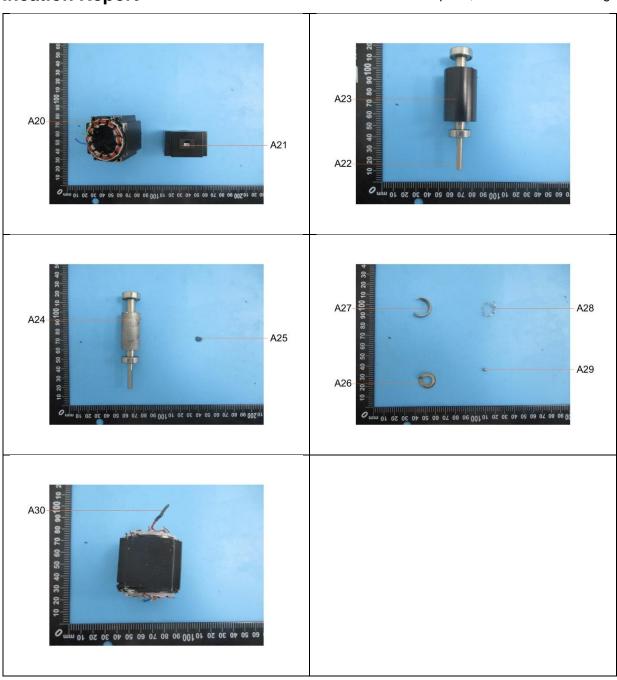
enticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101 中国 • 山东 • 青岛市崂山区株洲路143号通标中心

t (86-532) 68999888 t (86-532) 68999888 www.sgsgroup.com.cn



Verification Report No.: TAOEC25002931901 Date: Apr 30, 2025 Page 9 of 9



SGS authenticate the photo on original report only *** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone (86-758) 2377 1443.

enticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101 中国 • 山东 • 青岛市崂山区株洲路143号通标中心

t (86-532) 68999888 t (86-532) 68999888

www.sgsgroup.com.cn