

Shanghai DADA Electric CO.,Ltd.

Number:

150501784SHA-001(R1)

Applicant:

Date:

Aug 10, 2015

Sample Description:

Item Name

One (1) piece of submitted sample said to be

: Moulded Case Circuit Breaker

No 171, Yezhuang Road, Zhuanghang, Fengxian, Shanghai,

Testing Model : DAM1-250

Reference Model : DAM1-125, DAM1-160, DAM1-400, DAM1-630, DAM1-800,

DAM1-1600



Tests Conducted:

As Requested By the Applicant, For Details Refer To Attached Page(s)

Remark:

This is to supersede report No. 150501784SHA-001 dated in Jul 23, 2015

Conclusion:

Tested sample Tested component of Submitted sample

Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive 2011/65/EU. Result Pass

To be continued



Intertek Testing Services Ltd., Shanghai



Manager

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Tests Conducted

Determination of levels of regulated substances in electrotechnical products, elements of Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) contents were measured by XRF Spectroscopy and chemical

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confirmation test for RoHS restricted substances.

(A) Results:

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs
			Cd	Р	/	
			Pb	Р	/	-
1	COVER (WHITE PLASTIC)	/	Hg	Р	1	PASS
	(**************************************		Cr	Р	1	
			Br	Р	1	
			Cd	Р	1	
			Pb	Р	1	-
2	BASE (WHITE PLASTIC)	/	Hg	Р	/	PASS
	(WITTE LEASTIC)	Cr	Р	1	1	
			Br	Р	/	
	PLATE (BLACK NONMETAL)	,L) /	Cd	Р	1	
			Pb	Р	1	
3			Hg	Р	1	PASS
			Cr	Р	1	
			Br	Х	PBBs=ND, PBDEs=ND	
			Cd	Р	1	
			Pb	Р	1	
4	STENT (WHITE PLASTIC)	/	Hg	Р	1	PASS
	(**************************************		Cr	Р	1	
			Br	Р	/	
			Cd	Р	/	
			Pb	Р	/	
5	CAP (GREY PLASTIC)	/	Hg	Р	/	PASS
	(5.12.1.2/10/10)		Cr	Р	/	
			Br	Р	/	1



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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs
			Cd	Р	/	
			Pb	Р	1	
6	6 CAP (GREY PLASTIC)	/	Hg	Р	1	PASS
			Cr	Р	1	
			Br	Р	/	
			Cd	Р	1	
		Pb	Р	1		
7	STUDE (GREY PLASTIC)	/	Hg	Р	/	PASS
	(6.12.1.2.10.110)		Cr	Р	1	
			Br	Р	1	
			Cd	Р	/	
			Pb	Р	/	PASS
8	STENT (GREY PLASTIC)	(GREY PLASTIC)	Hg	Р	/	
	(OKETTE/OTIO)		Cr	Р	/	
			Br	Х	PBBs=ND, PBDEs=ND	
			Cd	Р	/	
				Pb	Р	/
9	ROD (BLACK PLASTIC)	/	Hg	Р	/	PASS
	(52/10/11/2/10/10)		Cr	Р	/	
			Br	Р	/	
			Cd	Р	1	
			Pb	Р	/	
10	FOOT (SILVER METAL)	/	Hg	Р	/	PASS
	(3.272.772)		Cr	Р	/	
			Br	NA	/	
			Cd	Р	/	
			Pb	Р	1	
11	GREY PLASTIC	/	Hg	Р	/	PASS
			Cr	Р	/	
			Br	Р	/	-



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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs		
			Cd	Р	/			
			Pb	Р	1			
12	BASE (GREY PLASTIC)	/	Hg	Р	1	PASS		
	(Cr	Р	1			
			Br	Х	PBBs=ND, PBDEs=ND			
			Cd	Р	1			
			Pb	Р	1			
13	FIXED PLATE (SILVER METAL)	/	Hg	Р	1	PASS		
	(0.2 v 2.1 v 1.1 z 1.7 x 2.)		Cr	Р	1			
			Br	NA	1	•		
					Cd	Р	/	
		SCREW VER METAL)	Pb	Р	/	PASS		
14	SCREW (SILVER METAL)		Hg	Р	/			
			Cr	Р	/			
			Br	NA	/			
				Cd	Р	1		
				Pb	Р	/		
15	BOLT (SILVER METAL)	/	Hg	Р	/	PASS		
	(0.2 v 2.1 t 1.1 2.7 1.2)		Cr	Р	/			
			Br	NA	/			
			Cd	Р	1			
			Pb	Р	/			
16	SCREW (SILVER METAL)	/	Hg	Р	/	PASS		
	(0.2 v 2.1 t 1.1 2.7 1.2)		Cr	Р	/			
			Br	NA	/			
			Cd	Р	/			
			Pb	Р	/			
17	WASHER (SILVER METAL)		Hg	Р	/	PASS		
	(OILVEIX IVIL ITTL)		Cr	Р	/			
			Br	NA	/	1		



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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs			
			Cd	Р	/				
			Pb	Р	1				
18	MAPLE LEAF (BLACK METAL)	/	Hg	Р	1	PASS			
	(BENOR WE TAE)	TOK WIE 17/E)	Cr	Р	/				
			Br	Р	1				
			Cd	Р	1				
			Pb	Х	Pb=18590ppm#1				
19	RING (GOLD METAL)	/	Hg	Р	/	PASS			
	(0025 1112 1712)		Cr	Р	1				
			Br	NA	1				
	PLATE / (YELLOW PLASTIC)	Cd	Р	/					
		/	Pb	Р	1	PASS			
20			Hg	Р	1				
			Cr	Р	1				
			Br	Х	PBBs=ND, PBDEs=ND				
	PLATE (SILVER METAL)		Cd	Р	/				
				DI ATE		Pb	Р	1	
21					Hg	Р	/	PASS	
					Cr	Р	/		
			Br	NA	/				
			Cd	Р	1				
			Pb	Р	1				
22	SPRING (SILVER METAL)	/	Hg	Р	1	PASS			
	(=:=:=::::=:::=)		Cr	Р					
			Br	NA	/				
			Cd	Р	1				
			Pb	Р	1				
23	FIXED PLATE (BLACK METAL)	/	Hg	Р		PASS			
	(= =: · · · · · · · · · · · · · · · · · ·		Cr	Х	Cr ⁶⁺ = Negative				
			Br	NA	/				



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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs		
			Cd	Р	1			
		/	Pb	Р	1			
24	STENT (GOLD METAL)		Hg	Р	1	PASS		
	(002027)		Cr	Р	1			
			Br	NA	1			
			Cd	Р	1			
			Pb	Р	1			
25	TAP (WHITE PLASTIC)	/	Hg	Р	1	PASS		
	(**************************************		Cr	Р	/			
			Br	Р	/			
			Cd	Р	/			
	GLUG ROD (BLACK PLASTIC)	/	Pb	Р	1	PASS		
26			Hg	Р	/			
			Cr	Р	/			
			Br	Х	PBBs=ND, PBDEs=ND			
	KNOB (WHITE PLASTIC)		Cd	Р	/	PASS		
			Pb	Р	/			
27			Hg	Р	/			
		(()		Cr	Р	/	-
			Br	Р	/			
			Cd	Р	/			
			Pb	Р	/	1		
28	PLATE (SILVER METAL)	/	Hg	Р	/	PASS		
	(0.2 v 2.1 v 1.1 z 1.7 x 2.)		Cr	Р	1			
			Br	NA	1			
			Cd	Р	1			
			Pb	Р	1			
29	PLATE (SILVER METAL)	PLATE /	Hg	Р	/	PASS		
	(5.212.1.1.2.7.2)		Cr	Р	1			
			Br	NA	1	-		

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs	
			Cd	Р	1		
		/	Pb	Р	1		
30	PLATE (WHITE PLASTIC)		Hg	Р	1	PASS	
	(**************************************		Cr	Р	/		
			Br	Х	PBBs=ND, PBDEs=ND		
			Cd	Р	1		
				Pb	Р	1	
31	COVER (SILVER METAL)	/	Hg	Р	/	PASS	
	(0.2 v 2.1 v 1.1 z 1.7 x 2.)		Cr	Р	1		
			Br	NA	1		
			Cd	Р	/		
	SCREW (SILVER METAL)	/	Pb	Р	1	PASS	
32			Hg	Р	1		
			Cr	Р	1		
			Br	NA	1		
			Cd	Р	/		
				Pb	Р	1	
33	SCREW (SILVER METAL)	/	Hg	Р	/	PASS	
	(SIEVER WILLIAL)	(OILVEIX IVIL ITIL)		Cr	Р	/	
			Br	NA	1		
			Cd	Р	1		
			Pb	Р	/		
34	GREY PLASTIC	/	Hg	Р	/	PASS	
			Cr	Р	/		
			Br	Р	/		
			Cd	Р	/		
			Pb	Р	1		
35	WIRING BOARD (GOLD METAL)	/	Hg	Р	/	PASS	
	(SSES IVIE ITTE)		Cr	Р	/		
			Br	NA	***********		



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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs	
			Cd	Р	/		
			Pb	Р	/		
36	PLATE (BLACK PLASTIC)	IC) /	Hg	Р	/	PASS	
	(BERGITT ERGITO)		Cr	Р	/		
			Br	Р	/		
			Cd	Р	/		
			Pb	Р	/		
37	SPRING (SILVER METAL)	/	Hg	Р	/	PASS	
	(OILVER WEITE)		Cr	Р	/		
			Br	NA	/		
			Cd	Р	/		
			Pb	Р	/		
38	WIRE (COPPER METAL)	/	Hg	Р	/	PASS	
			Cr	Р	/		
			Br	NA	/		
				Cd	Р	/	
	WIRING FIXED		Pb	Р	/		
39	BOARD (GOLD METAL)	BOARD /	/	Hg	Р	/	PASS
			Cr	Р	/		
			Br	NA	/		
			Cd	Р	/		
			Pb	Р	/		
40	WHITE PLASTIC	/	Hg	Р	/	PASS	
			Cr	Р	/		
			Br	Р	/		
			Cd	Р	/		
			Pb	Р	/		
41	PILLAR (SILVER METAL)	/	Hg	Negati ve	1	PASS	
			Cr	Р	1		
			Br	NA	/		



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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs		
			Cd	Р	1			
			Pb	Р	/			
42	PILLAR (SILVER METAL)	/	Hg	Р	/	PASS		
	(0.2 v 2.1 v 1.1 z 1.7 x 2.)		Cr	Р	/			
			Br	NA	1			
			Cd	Р	1			
			Pb	Р	1			
43	STUDE (SILVER METAL)	/	Hg	Р	1	PASS		
	(0.2 v 2.1 v 1.1 z 1.7 x 2.)		Cr	Р	/			
			Br	NA	1	-		
	PIN (SILVER METAL)		Cd	Р	1			
		/	Pb	Р	1	PASS		
44			Hg	Р	1			
			Cr	Х	Cr ⁶⁺ = Negative			
			Br	NA	1			
					Cd	Р	1	
				Pb	Р	1		
45	SPRING (BLACK METAL)		Hg	Р	1	PASS		
	(BEACK WE TAE)		Cr	Р	/			
			Br	NA	1			
			Cd	Р	1			
			Pb	Р	/			
46	BIG SPRING (BLACK METAL)	/	Hg	Р	1	PASS		
	(22/10/11/11/27/27		Cr	Р	1			
			Br	NA	/			
			Cd	Р	1			
			Pb	Р	1			
47	SPRING (BLACK METAL)	SPRING (BLACK METAL)	Hg	Р	1	PASS		
	(==::::::::::::::::::::::::::::::::::::		Cr	Р	1			
			Br	NA	1			



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			Cd	Р	1		
			Pb	Р	/		
48	FIXED PLATE (SILVER METAL)	/	Hg	Р	/	PASS	
	(012 v 2 x 1112 17 x 2)		Cr	Р	/		
			Br	NA	/		
			Cd	Р	/		
			Pb	Р	/		
49	FIXED BOARD (SILVER METAL)	/	Hg	Р	/	PASS	
	(OILVER WETTE)		Cr	Р	/		
			Br	NA	/		
			Cd	Р	1		
			Pb	Р	1	PASS	
50	FIXED BOARD (SILVER METAL)	/	Hg	Р	1		
			Cr	Р	1		
			Br	NA	/		
				Cd	Р	1	
				Pb	Р	1	1
51	FIXED BOARD (SILVER METAL)	/	Hg	Р	1	PASS	
	(SILVEN WETAL)		Cr	Р	1		
			Br	NA	/		
			Cd	Р	/		
			Pb	Р	/		
52	FIXED BOARD (SILVER METAL)	/	Hg	Р	/	PASS	
	(SILVER WETAL)		Cr	Р	/		
			Br	NA	/		
			Cd	Р	/		
			Pb	Р	/		
53	STUDE (COPPER METAL)	/	Hg	Р	1	PASS	
	(OOI I EIN WILLIAL)		Cr	Р	1		
			Br	NA	1		
		i e	•		•	1	



No. Tested Components information Substance Result Result 54 PLATE (BLACK METAL) / Hg P Cr P Br NA	Confirmation esult / / / / PASS / / / /
Pb P	/ PASS / /
54 PLATE (BLACK METAL) / Hg P Cr P Br NA	/ PASS / /
(BLACK METAL) / Hg P Cr P Br NA	/ /
Cr P Br NA	1
	/
Cd P	
Pb P	/
55 PILLAR / Hg P	/ PASS
Cr P	1
Br NA	/
Cd P	1
Pb P	/
56 PLATE / Hg P	/ PASS
(SIEVER METAL) Cr P	/
Br NA	/
Cd P	/
Pb P	/
57 STENT / Hg P	/ PASS
Cr P	/
Br P	/
Cd P	/
Pb P	/
58 FRAME / Hg P	/ PASS
Cr P	/
Br NA	/
Cd P	/
Pb P	/
59 PLATE / Hg P	/ PASS
Cr P	/
Br NA	/



Part		Refer	Restricted	XRF	Chemical Confirmation	Conclusion	
No.	Tested Components	information	Substance	Result	Result	on RoHs	
			Cd	Р	/		
			Pb	Р	/		
60	WASHER (SILVER METAL)	/	Hg	Р	/	PASS	
	(0.21 2.112)	,	Cr	Р	/		
			Br	NA	/		
			Cd	Р	/		
			Pb	Р	/	PASS	
61	PILLAR (SILVER METAL)	/	Hg	Р	/		
	(OILVER WETTE)		Cr	Р	/		
			Br	NA	/		
	SMALL PILLAR (SILVER METAL)		Cd	Р	/	PASS	
			Pb	Р	/		
62		/	Hg	Р	/		
			Cr	Р	1		
			Br	NA	1		
			Cd	Х	Cd=81ppm		
				Pb	Х	Pb=33260ppm#1	
63	NUT (GOLD METAL)	/	Hg	Р	/	PASS	
	(0025 11121712)		Cr	Р	/		
			Br	NA	/		
			Cd	Р	/		
			Pb	Р	1		
64	STOPPER METAL (GOLD METAL)	/	Hg	Р	/	PASS	
	(GOLD WE ITE)		Cr	Р	1		
			Br	NA	1		
			Cd	Р	1		
			Pb	Р	1		
65	FIXED STENT (SILVER METAL)	/	Hg	Р	1	PASS	
	(3.27.27.19.27.12)		Cr	Р	1		
			Br	NA	/		



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			Cd	Р	1	
			Pb	Р	/	
66	PLATE (BLACK METAL)	/	Hg	Р	/	PASS
	(BENOR WETNE)		Cr	Р	/	
			Br	NA	/	
			Cd	Р	/	
			Pb	Р	/	
67	FIXED FRAME (SILVER METAL)	/	Hg	Р	1	PASS
	(OILVEIT METAL)		Cr	Р	1	
			Br	NA	/	
	PUSH ROD (WHITE PLASTIC)		Cd	Р	/	
			Pb	Р	/	PASS
68		/	Hg	Р	/	
			Cr	Р	/	
			Br	Р	1	
			Cd	Р	/	
				Pb	Р	/
69	PILLAR (SILVER METAL)	/	Hg	Р	/	PASS
	(SILVER METAL)		Cr	Р	/	
			Br	NA	1	
			Cd	Р	/	
			Pb	Р	/	
70	LONG PILLAR (SILVER METAL)	/	Hg	Р	/	PASS
	(SIEVER METAL)		Cr	Р	1	
			Br	Р	/	
			Cd	Р	1	
			Pb	Р	/	
71	BROEN PLASTIC	/	Hg	Р	/	PASS
			Cr	Р	/	
			Br	NA	1	



Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHs
72	SCREW (SILVER METAL)	/	Cd	Р	1	PASS
			Pb	Р	/	
			Hg	Р	/	
			Cr	Р	/	
			Br	NA	/	
	NUT (SILVER METAL)	/	Cd	Р	/	PASS
73			Pb	Р	/	
			Hg	Р	/	
			Cr	Р	/	
			Br	NA	/	
74	WHITE PLASTIC	/	Cd	Р	/	PASS
			Pb	Р	1	
			Hg	Р	/	
			Cr	Р	1	
			Br	Р	1	
75	COVER (GREY PLASTIC)	/	Cd	Р	/	PASS
			Pb	Р	1	
			Hg	Р	1	
			Cr	Р	/	
			Br	Р	1	
	GREY PLASTIC	/	Cd	Р	1	PASS
D1			Pb	Р	1	
			Hg	Р	1	
			Cr	Р	1	
			Br	Х	PBBs=ND, PBDEs=ND	

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Remark: P = Pass (Below the lower screening limit of table (B))

X = Inconclusive result (Further chemical test was suggested (see table (B).)

NA = Not applicable

ND = Not detected

ppm = Parts per million = mg/kg

Negative = A negative test result indicated above positive observation was not found at the time of testing.

When the spot-test showed a negative result, the boiling-water-extraction procedure shall be used to verify the result.

(#1) = As claimed by the declaration submitted by the client, the Lead content of the components is coming from the copper alloy, the limit for Lead is 40,000ppm.

To be continued

Intertek Testing Services Ltd., Shanghai

Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233 上海天祥質量技術服務有限公司 上海市宜山路801 號金陵商務廣場B 座 200233 Telephone: +86 21 6120 6060 Facsimile: +86 21 6127 9740 www.intertek.com.cn



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(B) XRF screening limits in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	P ≤70 < X < 130 ≤ F	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 150 ≤ F
Pb	P ≤ 700 < X < 1300≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500< X < 1500 ≤ F
Hg	P ≤ 700< X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Cr	P ≤ 700< X	P ≤ 700 < F	P ≤ 500 < X
Br	P ≤ 300< X	Not applicable	P ≤ 250 < X

C) Estimated detection limits in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

(D) Chemical confirmation test methods:

Testing item	Testing method	Reporting limit
Cadmium (Cd) content	With reference to IEC 62321-5 edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 ppm
Lead (Pb) content	With reference to IEC 62321-5 edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 ppm
Mercury (Hg) content	With reference to IEC 62321-4 edition 1.0: 2013, by acid digestion and determined by ICP – OES	2 ppm
	With reference to IEC 62321 edition 1.0: 2008, by alkaline digestion and determined by UV-VIS spectrophotometer	1 ppm
Chromium (VI) (Cr ⁶⁺) content (for metal)	With reference to IEC 62321 edition 1.0: 2008, by boiling water extraction and determined by UV-VIS spectrophotometer	Positive/Negative (Threshold of 0.02mg/kg with 50cm²)
Polybrominated biphenyls (PBBs)	With reference to IEC 62321 edition 1.0: 2008, by solvent extraction and determined by GC/MS and HPLC	5 ppm
Polybrominated diphenyl ethers (PBDEs)	With reference to IEC 62321 edition 1.0: 2008, by solvent extraction and determined by GC/MS and HPLC	5 ppm



(E) RoHS requirement

Restricted substances	Limits	
Cadmium (Cd)	0.01% (100 ppm)	
Lead (Pb)	0.1% (1000 ppm)	
Mercury (Hg)	0.1% (1000 ppm)	
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 ppm)	
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)	
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)	

Number:

The above limits were quoted from RoHS Directive 2011/65/EU.

Date sample received: May 25, 2015

Testing period: May 25, 2015 to Jun 10, 2015; Jun 18, 2015 to Jun 23, 2015; Jul 10, 2015 to Jul 16, 2015

To be continued

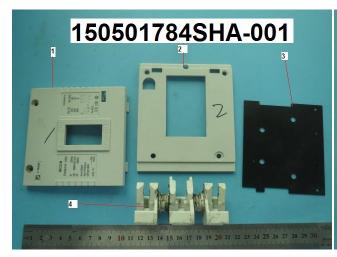
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Sample disassembling Photo(s)













End of this report

Intertek Testing Services Ltd., Shanghai

Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233 上海天祥質量技術服務有限公司 上海市宜山路801 號金陵商務廣場B 座 200233 Telephone: +86 21 6120 6060 Facsimile: +86 21 6127 9740 www.intertek.com.cn



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