

TEST REPORT

Reference No. :

Date : Jul.04, 2016

Page No.: 1 of 30

Client :

Address :

The following merchandise was (were) submitted and identified by the client as:

Name of Product : BLENDER

Test Model :

Main Materials: /

Model May Cover :

Sample Received : Jun.27, 2016

Test Period : Jun.27, 2016 - Jul.04, 2016

Test Request : Please refer to following form.

Test Method : Please refer to next pages

Test Result: Please refer to next pages

Conclusion : Please refer to next pages

Result Summary

In accordance with European Commission Directive (EU) 2015/863 amending RoHS Directive 2011/65/EU(RoHS 2.0) and its subsequent amendments, to do tests as following:

Test Items

Conclusion

- RoHS (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs contents) with reference to IEC 62321-2:2013, IEC 62321-3-1:2013, IEC 62321-5:2013, IEC 62321-4:2013, IEC 62321-6:2015, IEC 62321:2008 for submitted sample with homogeneous level.

PASS

Issued by:



TÜV NORD (Hangzhou)
Green Product Service Centre
Technical Manager

TÜV NORD (Hangzhou) CO.,LTD.

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TEST RESULTS

Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
1#	Cup					
1#-1	Transparent Cup	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
1#-2	Blue PP Cover	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
2#	Stirrer Head					
2#-1	Silvery Metal Blade	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
2#-2	Transparent Silicone Sealer	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
2#-3	Blue Silicone Sealer	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
2#-4	White Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
2#-5	Black Plastic Stirring Head	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
3#	Shell of Stirring Seat					
3#-1	Blue Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
3#-2	White Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
3#-3	Blue Plastic Press Key	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
3#-4	White Plastic Key Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
3#-5	Black Plastic Mat	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
4#	Cable Cord					
4#-1	White Jacket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
4#-2	Blue Insulation Layer	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
4#-3	Brown Insulation Layer	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
4#-4	Coppery Metal Core	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
4#-5	Silvery Plated Metal Plug Pin	Pb Cd Hg Cr(VI) PBBs PBDEs	IN BL BL BL --- ---	21973* --- --- --- --- ---	Comply* Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.29, 2016
4#-6	White PBT Plug Support	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#	Inner Components					
5#-1	Stator					
5#-1-1	Silvery Metal Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
5#-1-2	Bearing Ring	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
5#-1-3	Carbon Brush, Coppery Metal Contact	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-4	Carbon Brush, Coppery Metal Rope	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-5	Carbon Brush, Brush	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-6	Carbon Brush, Metal Spring	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-7	Carbon Brush, Black Plastic Fixing Frame					
5#-1-8	Silvery Metal Solder	Pb Cd Hg Cr(VI) PBBs PBDEs	IN BL BL BL --- ---	623 --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.29, 2016
5#-1-9	Ceramic Capacitor, Body	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-1-10	Ceramic Capacitor, Metal Pin	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
5#-1-11	Coppery Metal Contact	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-12	Black Shrinkable Tube	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-1-13	Inductor, Coppery Wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-14	Inductor, Metal Pin					
5#-1-15	Stator, Silicone Steel Piece	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
5#-1-16	Enamelled Coppery Metal Wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-17	Transparent Yellow Tape	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-18	Transparent Plastic Belt	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
5#-1-19	Wire, Black Insulating Layer	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-20	Wire, Silvery Metal Core	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-21	Yellow Capacitor	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-1-22	Yellow Capacitor, Metal Pin					
5#-1-23	Black Shrinkable Tube	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-1-24	Contact Switch, Green Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-25	Contact Switch, Metal Press	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-26	Contact Switch, Metal Spring	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016

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5#-1-27	Contact Switch, Black Plastic Key	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-28	Contact Switch, Metal Contact	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-1-29	Wire, Red Insulating Layer	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-30	Contact Switch, Transparent Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-31	Transparent Plastic Tape	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-1-32	Thermo Inductor	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
5#-1-33	Copper Wire Connector	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016

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5#-1-34	White Paper Tape	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-2	Rotor					
5#-2-1	Stirring Base	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-2-2	Black Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-2-3	Silvery Metal Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
5#-2-4	Transparent White Plastic Leaf	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-2-5	Blue Paste	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-2-6	Silvery Silicone Steel Piece	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
5#-2-7	Enamelled Coppery Metal Wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
5#-2-8	White Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-2-9	Red Insualting Board	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-2-10	Coppery Metal Terminal	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
5#-2-11	Silvery Metal Axis	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
5#-2-12	Brown Laminating Gasket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
5#-2-13	Brown Laminating Gasket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
5#-2-14	Silvery Metal Gasket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
5#-2-15	Coppery Metal Gasket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
6#	Fasteners and other Components					
6#-1	Grey Wire Locking Board	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
6#-2	Transparent Plastic Locking Component	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
6#-3	Silvery Metal Spring	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
6#-4	Metal Screws	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
6#-5	Silvery Metal Screws	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016

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Part No.	Part Description	Restricted Substances	Result of EDXRF ⁽¹⁾	Result of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
6#-6	Silvery Metal Board	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016 Jun.30, 2016
6#-7-1	Transparent Connector Jacket	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
6#-7-2	Connector, Metal Contact	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply N.A. N.A.	Jun.27, 2016
6#-8	Plastic Leaf	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- N.D. N.D.	Comply Comply Comply Comply Comply Comply	Jun.27, 2016 Jul.01, 2016
Alternative						
7#-1	Grey Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016
7#-2	Black Plastic Frame	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	Jun.27, 2016

***** To be continued *****

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Remark:

- (1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr^{6+} .
- (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr^{6+}) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	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	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,
-- = Not Regulated, NA = Not Applicable.

- (d) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

- (2) (a) mg/kg = ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.

- (b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr^{6+} for polymer & composite sample is 2 mg/kg.

- (c) According to IEC 62321:2008, result on Cr^{6+} for metal sample is shown as Positive/Negative.

Positive = Presence of Cr^{6+} coating, Negative = Absence of Cr^{6+} coating.

- (3) * denotes that exemption was applicable.

***** To be continued *****

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(3) RoHS Exemptions

Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
1, Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
1(a), For general lighting purposes < 30 W:2.5 mg	
1(b), For general lighting purposes ≥ 30 W and < 50W:3.5mg	
1(c), For general lighting purposes ≥ 50 W and < 150 W: 5 mg	
1(d), For general lighting purposes ≥ 150 W: 15 mg	
1(e), For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 7 mg	
1(f), For special purposes: 5 mg	
1(g), For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg	Expires on 31 December 2017
2(a), Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	
2(a)(1), Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	
2(a)(2), Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	
2(a)(3), Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8):3.5mg	
2(a)(4), Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3.5 mg	
2(a)(5), Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg	
2(b), Mercury in other fluorescent lamps not exceeding (per lamp):	
2(b)(2), Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3), Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9):15mg	
2(b)(4), Lamps for other general lighting and special purposes (e.g. induction lamps):15mg	
3, Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):	
3(a), Short length (≤500 mm):3.5mg	
3(b), Medium length (> 500 mm and ≤ 1 500 mm):5mg	
3(c), Long length (> 1 500 mm):13mg	
4(a), Mercury in other low pressure discharge lamps (per lamp):15mg	
4(b), Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:	
4(b) -I, P ≤155 W:30mg	
4(b) -II, 155 W < P ≤ 405 W:40mg	
4(b) -III, P > 405 W:40mg	

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Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
4(c), Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	
4(c)-I, $P \leq 155$ W:25mg	
4(c)-II, 155 W < $P \leq 405$ W:30mg	
4(c)-III, $P > 405$ W:40mg	
4(e), Mercury in metal halide lamps (MH)	
4(f), Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	
4(g), Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair+0,3mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair+0,24mg per tube length in cm, but not more than 80 mg, for all other indoor applications	Expires on 31 December 2018'
5(a), Lead in glass of cathode ray tubes	
5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	
6(b), Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	
6(c), Copper alloy containing up to 4 % lead by weight	
7(a), Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	
7(b), Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	
7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	
7(c)-II, Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	
7(c)-III, Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
7(c)-IV, Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors	Expires on 21 July 2016

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Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
8(a), Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
8(b), Cadmium and its compounds in electrical contacts	
9, Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	
9(b), Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	
11(a), Lead used in C-press compliant pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010
11(b), Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
12, Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010
13(a), Lead in white glasses used for optical applications	
13(b), Cadmium and lead in filter glasses and glasses used for reflectance standards	
14, Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight	Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011
15, Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	
17, Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	
18(b), Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP ($BaSi_2O_5:Pb$)	
21, Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	
23, Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010

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Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
24, Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	
25, Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	
26, Lead in the following applications that are used durably at a temperature below – 20 °C under normal operating and storage conditions: (a) solders on printed circuit boards; (b) termination coatings of electrical and electronic components and coatings of printed circuit boards; (c) solders for connecting wires and cables; (d) solders connecting transducers and sensors. Lead in solders of electrical connections to temperature measurement sensors in devices which are designed to be used periodically at temperatures below – 150 °C.	These exemptions expire on 30 June 2021
29, Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC ⁽¹⁾	
30, Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	
31, Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	
32, Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	
33, Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers	
34, Lead in cermet-based trimmer potentiometer elements	
37, Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	
38, Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	
41, Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council) ⁽²⁾	Expires on 31 December 2018
43, Cadmium anodes in Hersch cells for oxygen sensors used in industrial monitoring and control instruments, where sensitivity below 10 ppm is required.	Expires on 15 July 2023

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Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
<p>Note: 1. ⁽¹⁾ OJ L 326, 29.12.1969, p.36. ⁽²⁾ OJ L 59, 27.2.1998, p. 1.</p> <p>2. For the purposes of Directive 2011/65/EU, a maximum concentration value of 0,1 % by weight in homogeneous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0,01 % by weight in homogeneous materials for cadmium shall be tolerated.</p>	

***** To be continued *****

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV Equipment	
Exemption Items	Expires Date
1. Lead, cadmium and mercury in detectors for	
2. Lead bearings in X-ray tubes.	
3. Lead in electromagnetic radiation amplification devices: micro-channel plate and capillary plate.	
4. Lead in glass frit of X-ray tubes and image intensifiers and lead in glass frit binder for assembly of gas lasers and for vacuum tubes that convert electromagnetic radiation into electrons.	
5. Lead in shielding for	
6. Lead in X-ray test objects.	
7. Lead stearate X-ray diffraction crystals.	
8. Radioactive cadmium isotope source for portable X-ray fluorescence spectrometers. Sensors, detectors and electrodes	
8.1a. Lead and cadmium in ion selective electrodes including glass of pH electrodes.	
8.1b. Lead anodes in electrochemical oxygen sensors.	
8.1c. Lead, cadmium and mercury in infra-red light detectors.	
8.1d. Mercury in reference electrodes: low chloride mercury chloride, mercury sulphate and mercury oxide.	
9. Cadmium in helium-cadmium lasers.	
10. Lead and cadmium in atomic absorption spectroscopy lamps.	
11. Lead in alloys as a superconductor and thermal conductor in MRI.	
12. Lead and cadmium in metallic bonds creating superconducting magnetic circuits in MRI, SQUID, NMR (Nuclear Magnetic Resonance) or FTMS (Fourier Transform Mass Spectrometer) detectors.	Expires on 30 June 2021
13. Lead in counterweights.	
14. Lead in single crystal piezoelectric materials for ultrasonic transducers.	
15. Lead in solders for bonding to ultrasonic transducers.	
16. Mercury in very high accuracy capacitance and loss measurement bridges and in high frequency RF switches and relays in monitoring and control instruments not exceeding 20 mg of mercury per switch or relay.	
17. Lead in solders in portable emergency defibrillators.	
18. Lead in solders of high performance infrared imaging modules to detect in the range 8-14 μm .	
19. Lead in Liquid crystal on silicon (LcoS) displays.	
20. Cadmium in X-ray measurement filters.	

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV Equipment	
Exemption Items	Expires Date
21. Cadmium in phosphor coatings in image intensifiers for X-ray images until 31 December 2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.	
22. Lead acetate marker for use in stereotactic head frames for use with CT and MRI and in positioning systems for gamma beam and particle therapy equipment.	Expires on 30 June 2021.
23. Lead as an alloying element for bearings and wear surfaces in medical equipment exposed to ionising radiation.	Expires on 30 June 2021
24. Lead enabling vacuum tight connections between aluminium and steel in X-ray image intensifiers.	Expires on 31 December 2019
25. Lead in the surface coatings of pin connector systems requiring nonmagnetic connectors which are used durably at a temperature below – 20 °C under normal operating and storage conditions.	Expires on 30 June 2021
26. Lead in — solders on printed circuit boards, — termination coatings of electrical and electronic components and coatings of printed circuit boards, — solders for connecting wires and cables, — solders connecting transducers and sensors, that are used durably at a temperature below – 20 °C under normal operating and storage conditions.	Expires on 30 June 2021
27. Lead in — solders, — termination coatings of electrical and electronic components and printed circuit boards, — connections of electrical wires, shields and enclosed connectors, which are used in magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, including patient monitors designed to be used within this sphere, or magnetic fields within 1 m distance from the external surfaces of cyclotron magnets, magnets for beam transport and beam direction control applied for particle therapy.	Expires on 30 June 2020
28. Lead in solders for mounting cadmium telluride and cadmium zinc telluride digital array detectors to printed circuit boards.	Expires on 31 December 2017
29. Lead in alloys, as a superconductor or thermal conductor, used in cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in cryo-cooled equipotential bonding systems, in medical devices (category 8) and/or in industrial monitoring and control instruments.	Expires on 30 June 2021

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV Equipment	
Exemption Items	Expires Date
30. Hexavalent chromium in alkali dispensers used to create photocathodes in X-ray image intensifiers until 31 December 2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.	
31. Lead, cadmium and hexavalent chromium in reused spare parts, recovered from medical devices placed on the market before 22 July 2014 and used in category 8 equipment placed on the market before 22 July 2021, provided that reuse takes place in auditable closed-loop business-to-business return systems, and that the reuse of parts is notified to the consumer.	Expires on 21 July 2021
32. Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.	Expires on 31 December 2019
33. Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.	Expires on 30 June 2016 for class IIa and on 31 December 2020 for class IIb.
34. Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.	Expires on 22 July 2021
35. Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017	Expires on 21 July 2024
36. Lead used in other than C-press compliant pin connector systems for industrial monitoring and control instruments.	Expires on 31 December 2020. May be used after that date in spare parts for industrial monitoring and control instruments placed on the market before 1 January 2021.'
37. Lead in platinized platinum electrodes used for conductivity measurements where at least one of the following conditions applies: (a) wide-range measurements with a conductivity range covering more than 1 order of magnitude (e.g. range between 0,1 mS/m and 5 mS/m) in laboratory applications for unknown concentrations; (b) measurements of solutions where an accuracy of +/- 1 % of the sample range and where high corrosion resistance of the electrode are required for any of the following: (i) solutions with an acidity < pH 1; (ii) solutions with an alkalinity > pH 13; (iii) corrosive solutions containing halogen gas; (c) measurements of conductivities above 100 mS/m that must be performed with portable instruments.	Expires on 31 December 2018

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Exemptions	
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Exemption Items	Expires Date
38. Lead in solder in one interface of large area stacked die elements with more than 500 interconnects per interface which are used in X-ray detectors of computed tomography and X-ray systems	Expires on 31 December 2019. May be used after that date in spare parts for CT and X-ray systems placed on the market before 1 January 2020.
39. Lead in micro-channel plates (MCPs) used in equipment where at least one of the following properties is present: (a) a compact size of the detector for electrons or ions, where the space for the detector is limited to a maximum of 3 mm/MCP (detector thickness+space for installation of the MCP), a maximum of 6 mm in total, and an alternative design yielding more space for the detector is scientifically and technically impracticable; (b) a two-dimensional spatial resolution for detecting electrons or ions, where at least one of the following applies: (i) a response time shorter than 25 ns; (ii) a sample detection area larger than 149 mm ² ; (iii) a multiplication factor larger than $1,3 \times 10^3$. (c) a response time shorter than 5 ns for detecting electrons or ions; (d) a sample detection area larger than 314 mm ² for detecting electrons or ions; (e) a multiplication factor larger than $4,0 \times 10^7$.	(a) 21 July 2021 for medical devices and monitoring and control instruments; (b) 21 July 2023 for in-vitro diagnostic medical devices; (c) 21 July 2024 for industrial monitoring and control instruments
40. Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC for industrial monitoring and control instruments	Expires on 31 December 2020. May be used after that date in spare parts for industrial monitoring and control instruments placed on the market before 1 January 2021
41. Lead as a thermal stabiliser in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in in-vitro diagnostic medical devices for the analysis of blood and other body fluids and body gases.	Expires on 31 December 2018
42. Mercury in electric rotating connectors used in intravascular ultrasound imaging systems capable of high operating frequency (> 50 MHz) modes of operation.	Expires on 30 June 2019

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SAMPLE PHOTO(S)



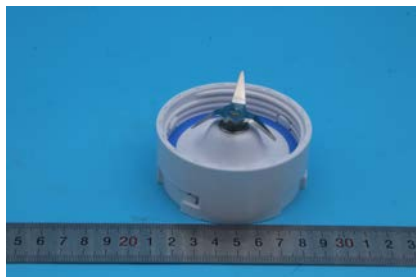
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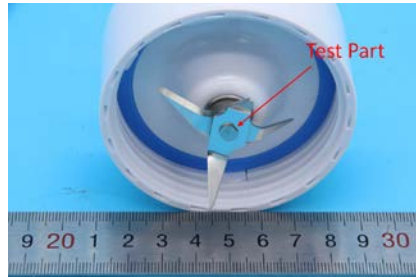
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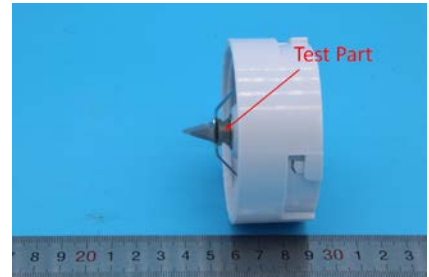
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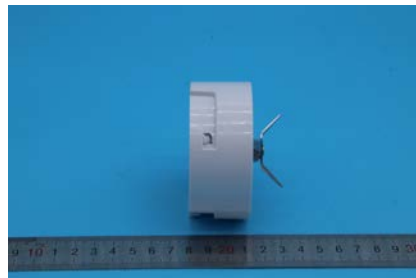
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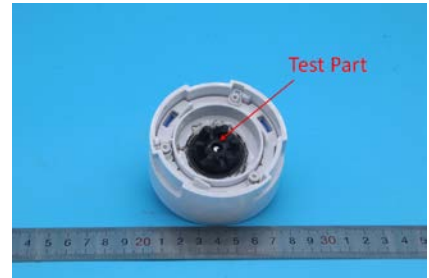
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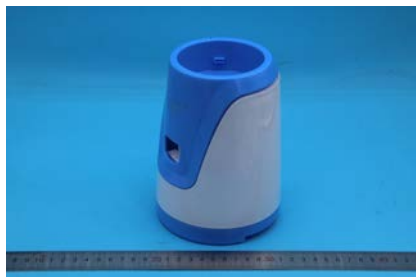
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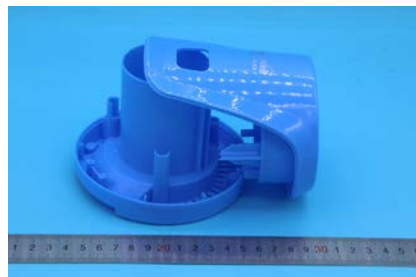
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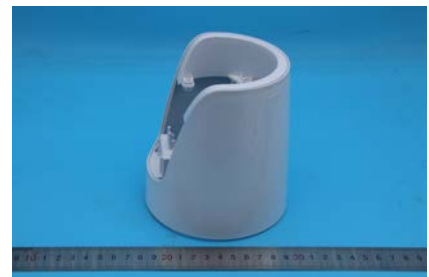
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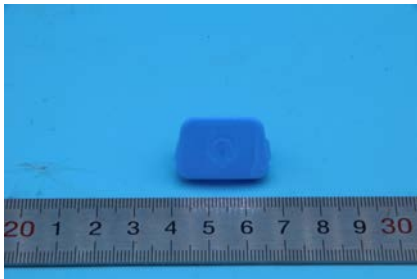
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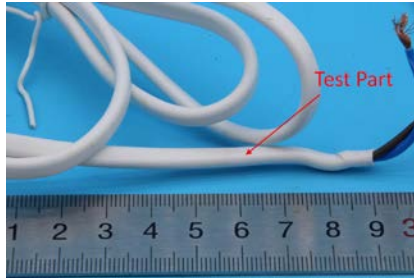
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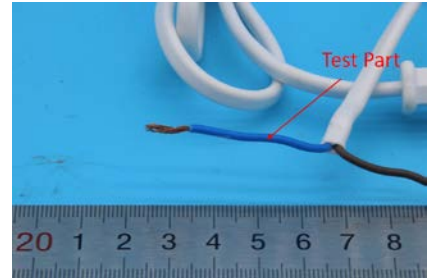
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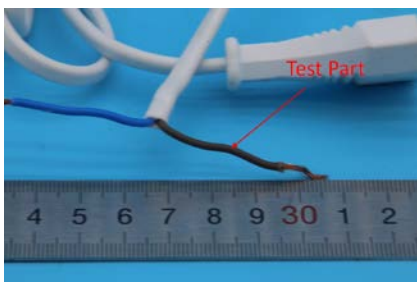
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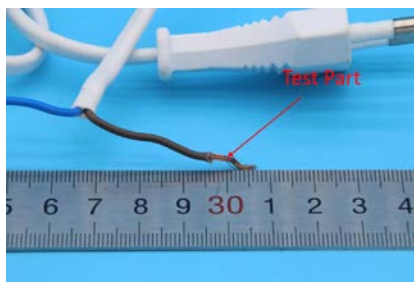
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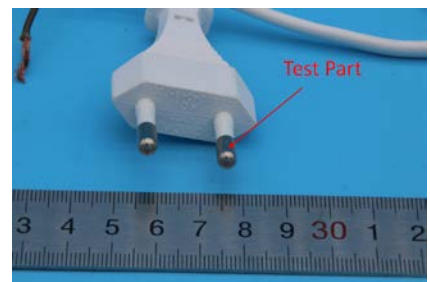
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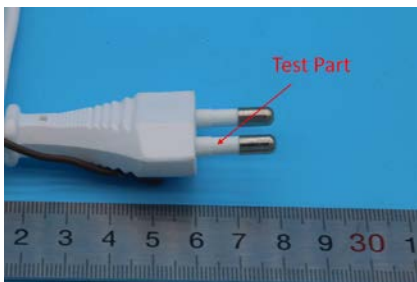
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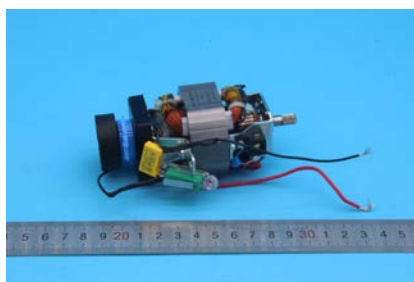
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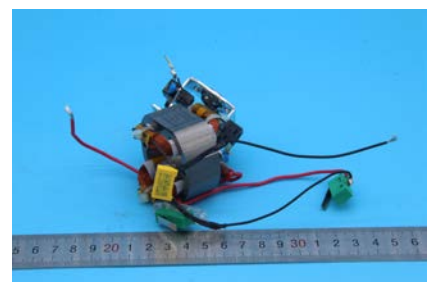
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4#-6



5#



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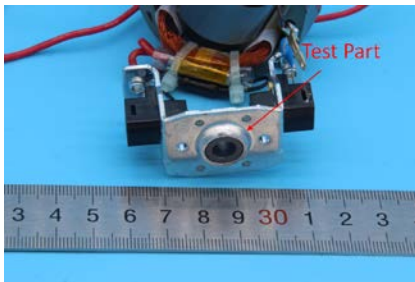
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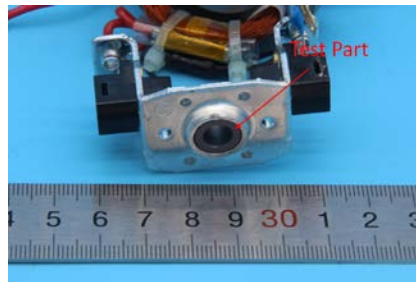
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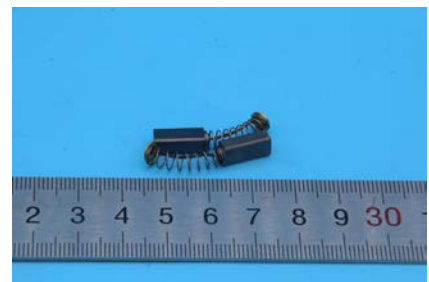
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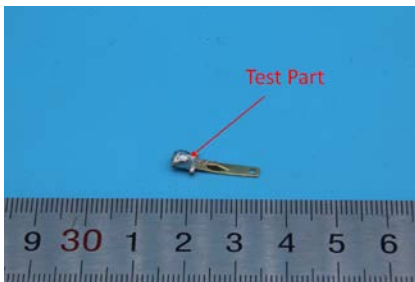
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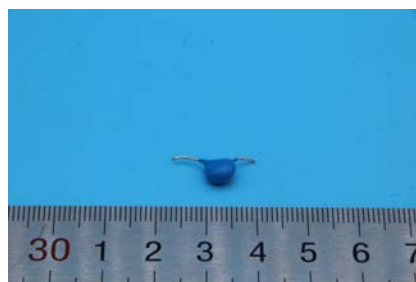
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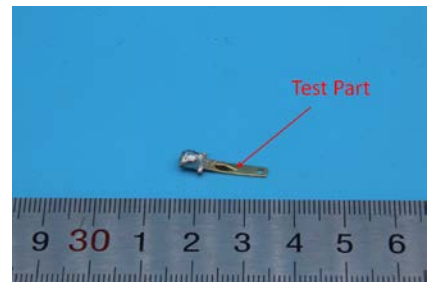
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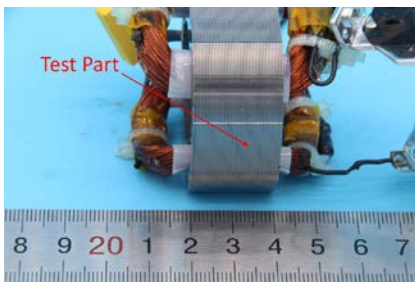
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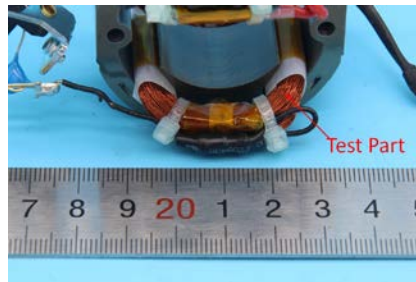
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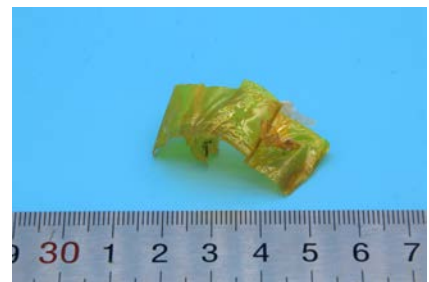
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5#-1-17

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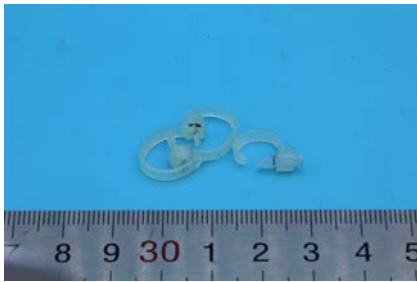
邮编: 310019
e-mail/报告查询: GPSC@tuv-nord.com

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Reference No. :

Date : Jul.04, 2016

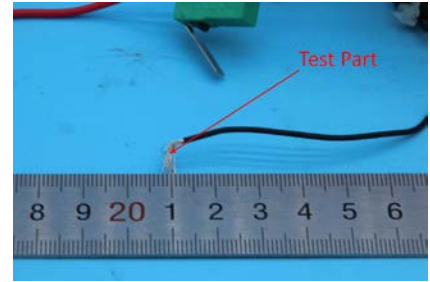
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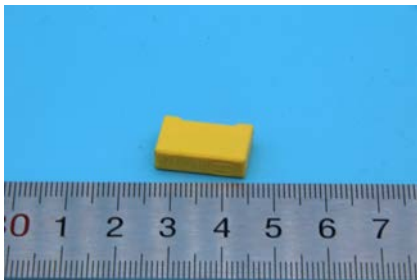
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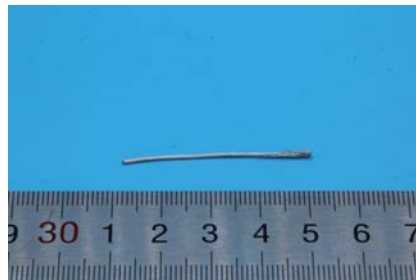
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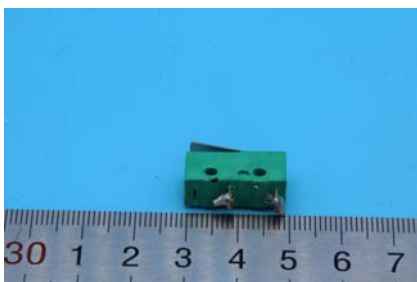
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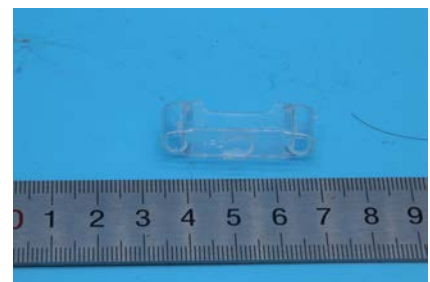
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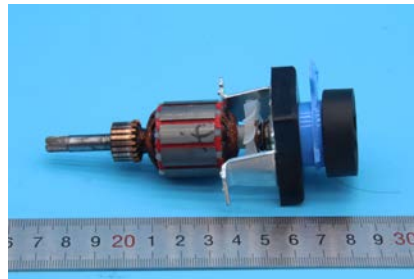
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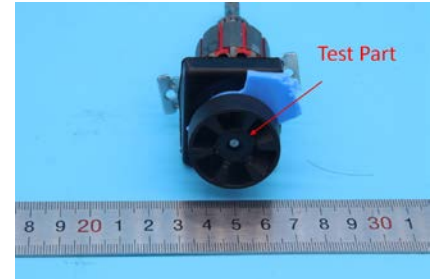
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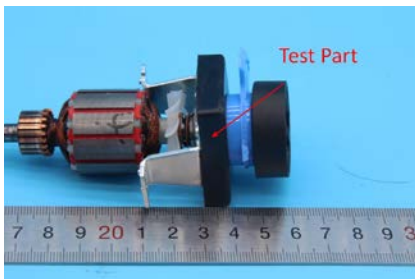
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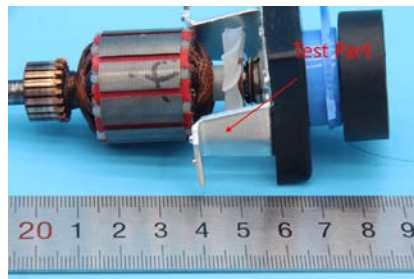
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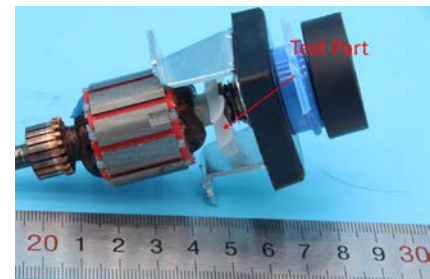
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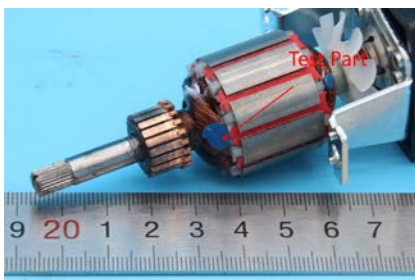
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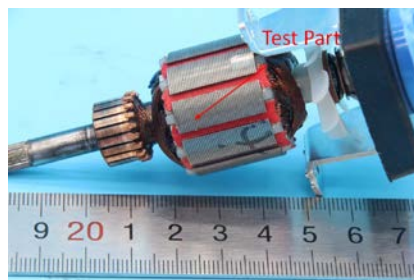
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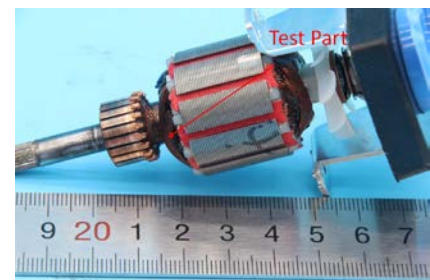
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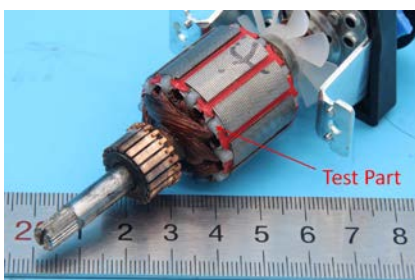
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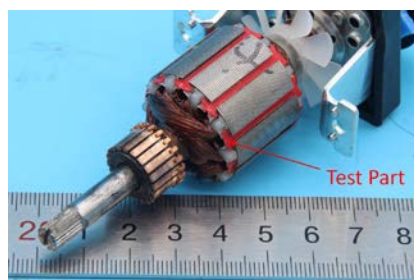
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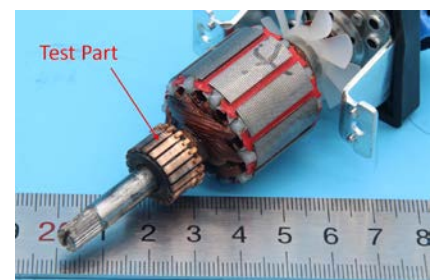
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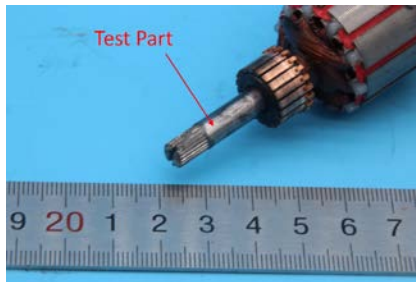
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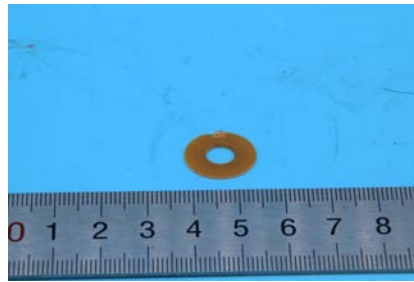
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Date : Jul.04, 2016

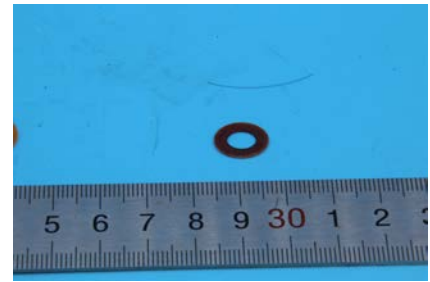
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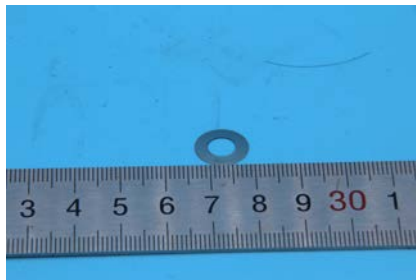
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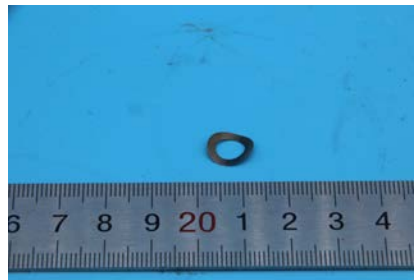
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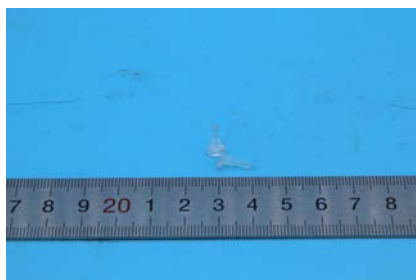
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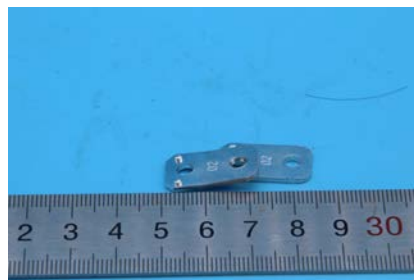
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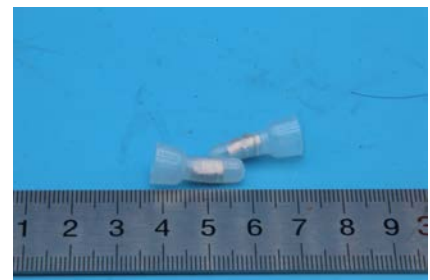
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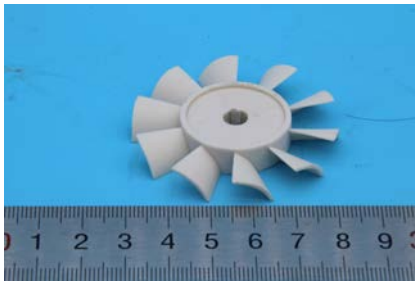
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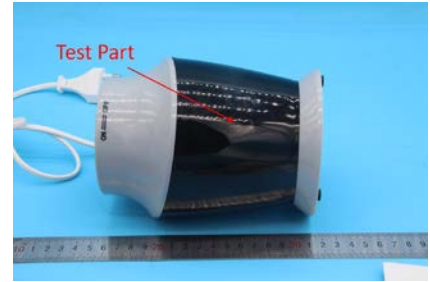
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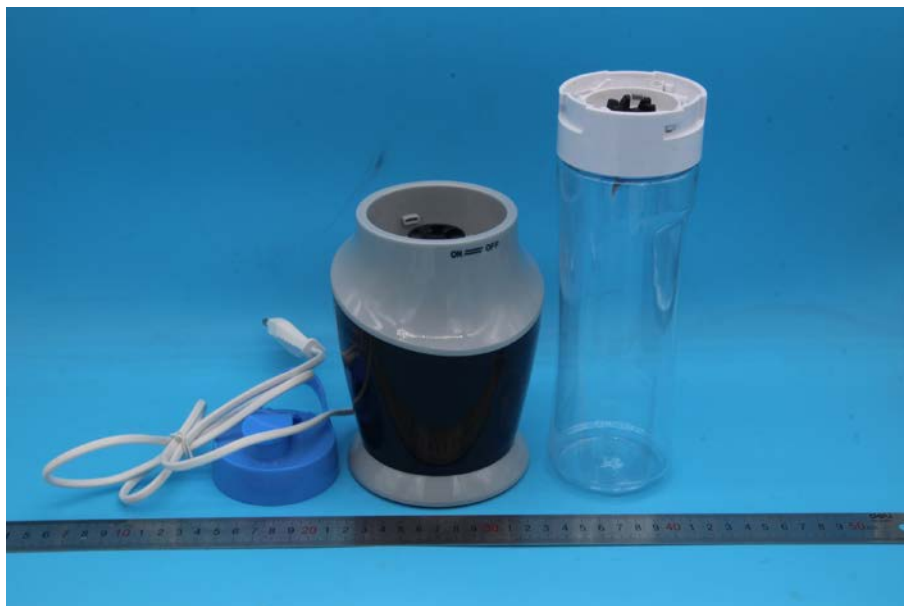
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MAIN MODEL'S PRODUCT PHOTO(S)



Tested Model JK-1152



Reference Model, JK-1151

***** END OF REPORT *****

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