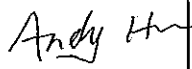
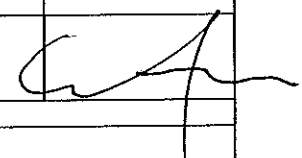


Test Report issued under the responsibility of:



TEST REPORT IEC 60335-2-3 Safety of household and similar electrical appliances Part 2: Particular requirements for electric irons	
Report Number	171100488SHA-001
Date of issue	2018-02-05: Amendment 2: 2019-02-14
Total number of pages	36 pages of test report (including 5 pages of photographs)
Name of Testing Laboratory preparing the Report	Intertek Testing Services Shanghai Limited
Applicant's name	Ningbo Huiyoudi Electrical Appliance Technology Co., Ltd.
Address	No. 3 Xinyang Road, Ditang Street, Yuyao, Zhejiang, P. R. China
Test specification:	
Standard	EN 60335-2-3:2016 in conjunction with EN 60335-1:2012+AC:2014+A11:2014+A13:2017 and EN 62233:2008 (IEC 60335-2-3:2012 (Sixth edition) + A1:2015 in conjunction with IEC 60335-1 2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013)
Test procedure	--
Non-standard test method	N/A
Test Report Form No	IEC60335_2_3K
Test Report Form(s) Originator	Korea Testing Laboratory
Master TRF	Dated 2015-12
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General disclaimer:	
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Test item description.....:	Steam Iron for household use
Trade Mark.....:	--
Manufacturer.....:	Ningbo Huiyoudi Electrical Appliance Technology Co., Ltd.
Model/Type reference.....:	DF-188, DF-188B
Ratings.....:	220-240V~, 50-60Hz, 2200-2400W, Class I

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):	
<input checked="" type="checkbox"/> Testing Laboratory:	Intertek Testing Services Shanghai Limited
Testing location/ address.....:	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P.R.China
<input type="checkbox"/> Associated CB Testing Laboratory:	
Testing location/ address.....:	
Tested by (name, function, signature).....:	Andy Huo Certification Engineer 
Approved by (name, function, signature)....:	Gavin Fu Supervisor 
<input type="checkbox"/> Testing procedure: CTF Stage 1:	
Testing location/ address.....:	N/A
Tested by (name, function, signature).....:	N/A
Approved by (name, function, signature)....:	N/A
<input type="checkbox"/> Testing procedure: CTF Stage 2:	
Testing location/ address.....:	N/A
Tested by (name + signature).....:	N/A
Witnessed by (name, function, signature)..:	N/A
Approved by (name, function, signature)....:	N/A
<input type="checkbox"/> Testing procedure: CTF Stage 3:	
<input type="checkbox"/> Testing procedure: CTF Stage 4:	
Testing location/ address.....:	N/A
Tested by (name, function, signature).....:	N/A
Witnessed by (name, function, signature)..:	N/A
Approved by (name, function, signature)....:	
Supervised by (name, function, signature) :	

List of Attachments (including a total number of pages in each attachment):	
N/A	
Summary of testing:	
From the result of our inspection and tests on the submitted samples, we conclude they comply with requirements of the standard.	
Tests performed (name of test and test clause):	Testing location:
Refer to description for Amendment 2 (page 5) for details.	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, P.R.China
Summary of compliance with National Differences:	
List of countries addressed: Germany and United Kingdom.	
<input checked="" type="checkbox"/> The product fulfils the requirements of EN 60335-2-3:2016 in conjunction with EN 60335-1:2012+AC: 2014+A11:2014+A13:2017 and EN 62233:2008	

Copy of marking plate (Representative)
Mark for iron and its stand:
Note: When the equipment is vended to EU, then name and address of the importer or authorized representative within the EEA shall be added on the equipment.

Test item particulars:	
Classification of installation and use:	Class I, household and indoor use
Supply Connection	Cord connected with type Y attachment
.....:	
Possible test case verdicts:	
- test case does not apply to the test object : N/A	
- test object does meet the requirement..... : P (Pass)	
- test object does not meet the requirement : F (Fail)	
Testing :	
Date of receipt of test item :	2018-12-17
Date (s) of performance of tests	2018-12-19 to 2019-01-22
General remarks:	
<p>"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p> <p>Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.</p> <p>The services are provided subject to the terms and condition of the company, which can be furnished upon request.</p> <p>PAH test according to AfPS GS 2014:01 PAK is considered and passed, please refer to PAH test report 171100488SHA-001-PAH and 171100488SHA-001-PAH+A1.</p> <p>This test report should be read in conjunction with the constructional data form (CDF).</p> <p>This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-2-30:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	

Name and address of factory (ies) : Ningbo Huiyoudi Electrical Appliance Technology Co., Ltd.
No. 3 Xinyang Road, Ditang Street, Yuyao, Zhejiang, P. R. China

General product information:

The products tested in this test report are considered as steam iron for household and indoor use. The appliances incorporated an iron and a separately water reservoir. The irons incorporated an adjustable thermostat for controller and a thermal link served as protector. Water is pumped from water reservoir of stand to the hot soleplate of iron, then evaporated into steam and spray out.

DF-188 and DF-188B are same, except the soleplate of iron.

Amendment 2:

The original test report ref. No. 171100488SHA-001 issued on 2018-02-05, with amendment 1 dated on 2018-03-23, was modified on 2019-02-14 to include the following changes and/or additions:

1. Add a new model DF-188B;
1) DF-188B is same as DF-188, except the soleplate of iron;
2. Update the standard EN 60335-1 from "EN 60335-1: 2012+A11:2014+ AC:2014" to "EN 60335-1: 2012+A11:2014+AC:2014+A13:2017";
3. Add alternative non-adjustable thermostat for Electromagnetic valve, steam switch;
4. Update table 24.1 and PAH report.

Clauses concerned: Cl.7, 8, 10, 11, 13, 15, 16, 19, 20, 21, 22, 23, 25, 27, 28, Annex EMF and new standard clauses, the other clauses not mentioned are referred to original report;

Table concerned: 10.1, 11.8, 13.2, 13.3, 16.2, 16.3, 19.13, 24.1, 28.1, 29, 30.

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
7	MARKING AND INSTRUCTIONS		--
7.1	Rated voltage or voltage range (V).....: 220-240	220-240	P
	Symbol for nature of supply, or.....: ~	~	P
	Rated frequency (Hz): 50-60	50-60	P
	Rated power input (W) (IEC 60335-2-3): 2200-2400	2200-2400	P
	Rated current (A):		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark.....:	Refer to marking	P
	Model or type reference.....:	Refer to marking	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0.....: IPX0	IPX0	N/A
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
	Separate stands marked with: (IEC 60335-2-3)		--
	- name, trademark or identification mark of the manufacturer or responsible vendor:	Refer to marking	P
	- model or type reference of the stand:	Refer to marking	P
	Stands of cordless irons marked with their: (IEC 60335-2-3)		--
	- rated voltage or rated voltage range:		N/A
	- rated power input.....:		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	220-240V~, 50-60Hz, 2200-2400W	P
	Different rated values marked with the values separated by an oblique stroke		N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		P
	the power input or current are related to the arithmetic mean value of the rated voltage range		N/A

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		P
7.6	Correct symbols used		P
	Symbol for nature of supply placed next to rated voltage		P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		P
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		--
	- marking of terminals exclusively for the neutral conductor (letter N)		N/A
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- marking not placed on removable parts		P
7.9	Marking or placing of switches which may cause a hazard		P
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	Refer to photo	P
	This applies also to switches which are part of a control		P
	If figures are used, the off position indicated by the figure 0		N/A
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		N/A
7.11	Indication for direction of adjustment of controls	Refer to photo	P
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	The instructions state that:		--
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction	Replaced by EN 60335-2-3	N/A

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	- children being supervised not to play with the appliance	Replaced by EN 60335-2-3	N/A
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated.....: :		N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
	The instructions must contain the substance of the following :		--
	- the iron must not be left unattended while it is connected to the supply mains (IEC 60335-2-3)		P
	- the plug must be removed from the socket-outlet before the water reservoir is filled with water (for steam irons and irons incorporating means for spraying water) (IEC 60335-2-3)		P
	- the filling, or decalcifying, or rinsing, or inspection apertures that are under pressure, shall not be opened during use (for steam irons with pressurized compartments only) (IEC 60335-2-3)		N/A
	- the iron must only be used with the stand provided (for cordless irons) (IEC 60335-2-3)		N/A
	- the iron is not intended for regular use (for travel irons) (IEC 60335-2-3)		N/A
	- the iron must be used and rested on a stable surface (IEC 60335-2-3)		P
	- when placing the iron on its stand, ensure that the surface on which the stand is placed is stable (IEC 60335-2-3)		P
	- the iron is not to be used if it has been dropped, if there are visible signs of damage or if it is leaking (IEC 60335-2-3)		P
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Replacement cord instructions, type Z attachment		N/A
7.13	Instructions and other texts in an official language	English and German	P
7.14	Marking clearly legible and durable, rubbing test as specified		P
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A
	For steam irons with a separate water reservoir or boiler, the total rated power input marked on the part containing the supply terminals or supply cord (IEC 60335-2-3)		P
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P
	Lamps behind a detachable cover not removed, if conditions met		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts		P
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts		P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		P
	Connecting devices in stands of cordless irons are not considered to be socket-outlets (IEC 60335-2-3)		N/A
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		P
	Only possible to touch parts separated from live parts by double or reinforced insulation		P
10	POWER INPUT AND CURRENT		
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 ...:	(see appended table)	P
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	(see appended table)	P
	the rated power input is related to the arithmetic mean value		N/A
11	HEATING		
11.1	No excessive temperatures in normal use		P
11.2	Irons are placed on their stands away from the walls of the test corner. (IEC 60335-2-3)		N/A
	The separate water reservoir or boiler of steam irons placed as near to the walls as possible (IEC 60335-2-3)		P
	Vented steam irons with a separate water reservoir, pressurized steam irons and instantaneous steam irons tested both with the water reservoir empty and filled but without steam emission (IEC 60335-2-3)		P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Irons, other than cordless irons, also tested with the soleplate in the horizontal position placed on three pointed metallic supports that have a height of at least 100 mm. (IEC 60335-2-3)		P
	Vented steam irons with a separate water reservoir, pressurized steam irons and instantaneous steam irons are operated with the water reservoir or boiler filled (IEC 60335-2-3)		P
	For appliances provided with an automatic cord reel, one third of the total length of the cord is unreeled and temperature rise determined (IEC 60335-2-3)		N/A
	- as near as possible to the hub of the reel		N/A
	- between the two outermost layers of the cord on the reel		N/A
	If the cord reel is incorporated in a part that is moved during ironing, the cord is completely unreeled (IEC 60335-2-3)		N/A
	For cord storage devices, other than automatic cord reels, that are intended to partially accommodate the supply cord while the appliance is in operation, 50 cm of the cord is unwound (IEC 60335-2-3)		P
	For cord storage devices on parts that are moved during ironing, the cord is completely unwound (IEC 60335-2-3)		N/A
	Temperature rise of the stored part of the cord determined at the most unfavourable place (IEC 60335-2-3)		P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless	For water pump	P
	the windings are non-uniform or it is difficult to make the necessary connections		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):	2760W	P
	If the temperature rise limits are exceeded in appliances incorporating motors, transformers or electronic circuits and the power input is lower than the rated power input, the test is repeated with the appliance supplied at 1,06 times rated voltage. (IEC 60335-2-3)		N/A
11.7	Irons are operated until steady conditions are established (IEC 60335-2-3)		P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	When Vented steam irons with a separate water reservoir, pressurized steam irons and instantaneous steam irons, tested with the iron placed on the pointed supports, steam emitted in cycles of 10 s with steam emission and 10 s with steam emission interrupted (IEC 60335-2-3)		P
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended tables)	P
	Except for supply cords connected to separate containers, the temperature rise limit for the insulation of wiring and supply cords is increased from 50 K to 60 K (IEC 60335-2-3)		P
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	if there is doubt with regard to classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		P
	Protective devices do not operate, except		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
	During the test with the iron placed on the pointed supports, only temperature rise of the insulation of internal wiring and flexible cords are measured (IEC 60335-2-3)		P
	Temperature rise limits apply to the water reservoir and the hose of pressurized steam irons and instantaneous steam irons (IEC 60335-2-3)		P
	Temperature rise of the accessible surface of the hose complying with the temperature rise limits for handles which in normal use are held for short periods only (IEC 60335-2-3)		P
	Temperature rise of the surface of the textile material not exceeding 80 K, if a non-metallic hose is covered by textile material	(see appended table)	P
	(IEC 60335-2-3)		
	The temperature rise limits of motors, transformers and components of electronic circuits, including parts directly influenced by them, may be exceeded when the appliance is operated at 1,15 times rated power input (IEC 60335-2-3)		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1.15 times the rated power input (W).....:	2760W	P
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V).....:		N/A
	Protective impedance and radio interference filters disconnected before carrying out the tests		N/A
13.2	For class 0, class II and class III appliances, and class II constructions, leakage current measured by means of the circuit described in figure 4 of IEC 60990	Class II constructions	P
	For class 0I and class I appliances, a low impedance ammeter may be used	(see appended table) Class I	P
	Leakage current measurements		P
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4.....:	(see appended table)	P
	No breakdown during the tests		P
15	MOISTURE RESISTANCE		
15.3	Appliances proof against humid conditions		P
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		P
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		P
	Humidity test for 48 h in a humidity cabinet	93%RH, 23°C	P
	Reassembly of those parts that may have been removed		N/A
	The appliance withstands the tests of clause 16		P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		
16.1	Leakage current not excessive and electric strength adequate		P
	Protective impedance disconnected from live parts before carrying out the tests		N/A
	Tests carried out at room temperature and not connected to the supply		P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V).....:	254,4V	P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)		N/A
	Leakage current measurements	(see appended table)	P
	Limit values doubled if:		--
	- all controls have an off position in all poles, or		N/A
	- the appliance has no control other than a thermal cut-out, or		N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	- the appliance has radio interference filters		N/A
	With the radio interference filters disconnected, the leakage current do not exceed limits specified	(see appended table)	N/A
16.3	Electric strength tests according to table 7.....	(see appended table)	P
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	P
	No breakdown during the tests		P
19	ABNORMAL OPERATION		
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	(see appended table)	P
	The tests of 19.2 and 19.3 are not carried out (IEC 60335-2-3)		P
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and		P
	The test of 19.5 is only carried out on separate boilers of steam irons (IEC 60335-2-3)	No boiler	N/A
	Appliances incorporating PTC heating elements are also subjected to the test of 19.6		N/A
	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable		N/A
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable		P
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11		N/A

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Appliances incorporating voltage selector switches subjected to the test of 19.15		N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or		P
	until steady conditions are established		P
	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample		N/A
	Cordless irons are also subjected to the tests of 19.101 (IEC 60335-2-3)		N/A
19.4	Test conditions as in cl. 11 but at rated power input ,any control limiting the temperature during tests of clause 11 short-circuited (IEC 60335-2-3)		P
	Steam irons are tested with or without water, whichever is more unfavourable (IEC 60335-2-3)		P
	The test only carried out with the iron resting on its stand (IEC 60335-2-3)		P
	Any control that limits the pressure during the test of clause 11 is rendered inoperative (IEC 60335-2-3)		N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in table 9	(see appended table)	P
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		N/A
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		--
	- basic insulation (V)	1000V 1min	P
	- supplementary insulation (V)	1750V 1min	P
	- reinforced insulation (V)	3000V 1min	P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage	480V	P
	The appliance does not undergo a dangerous malfunction, and		P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		--
	- do not become operational, or		N/A
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		--
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
20	STABILITY AND MECHANICAL HAZARDS		
20.1	Irons must have adequate stability (IEC 60335-2-3)		P
	Irons incorporating a stand are placed on their stand on a plane inclined at an angle of 10° to the horizontal	Refer to EN 60335-2-3:2016	N/A
	Irons supplied with a separate stand are placed on the stand on a plane inclined at an angle of 15° to the horizontal		P
	Appliances are tested empty or filled with the most unfavourable quantity of water up to the capacity indicated in the instructions	Test on both conditions	P
	If the iron overturns or slips off the stand in one or more positions, it is tested as specified in clause 11 in all these positions		N/A
	The temperature rise must not exceed the values specified in table 9		N/A
21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		P
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J		P
	The appliance shows no damage impairing compliance with this standard, and		P
	compliance with 8.1, 15.1 and clause 29 not impaired		P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3		N/A
	If necessary, repetition of groups of three blows on a new sample		N/A
	Compliance is also checked by the tests of 21.101 and 21.102 (IEC 60335-2-3)		P
21.101	The irons is operated under normal operation at rated power input (IEC 60335-2-3)		P
	Except for cordless irons, the soleplate temperature is maintained under these conditions throughout the test (IEC 60335-2-3)		P
	The drop test is carried out 1000 times at a rate not exceeding 20 drops per min. (IEC 60335-2-3)		P
	The iron is not damaged to such an extent that compliance with 8.1, 15.2 and clause 29 is impaired (IEC 60335-2-3)		P
	In case of doubt, supplementary insulation and reinforced insulation is subjected to the electric strength test of 16.3 (IEC 60335-2-3)		N/A
21.102	A separate iron is supplied at rated voltage with the thermostat set to the highest position. When the thermostat operates, the iron is disconnected from the supply (IEC 60335-2-3)		P
	The hand-held part of the iron is placed in a sling, as described (IEC 60335-2-3)		P
	The iron is dropped three times onto the hard wood board (IEC 60335-2-3)		P
	After the test, the iron withstand the electric strength test of 16.3, steam irons first being filled with water and allowed to rest for 10 min on their stands (IEC 60335-2-3)		P
	The iron is not damaged to such an extent that compliance with 8.1 and 19.4 is impaired (IEC 60335-2-3)		P
	The test is only applicable to hand held parts of the iron (IEC 60335-2-3)		P
22	CONSTRUCTION		
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts	Thermostat knob, indicator cover, button	P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		P
	Tests as described	50N push force for all parts. 50N pull force for enclosure, handle. 30N pull force for indicator cover thermostat knob and button. 2Nm for thermostat knob.	P
22.12	Handles, knobs etc. fixed in a reliable manner		P
	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		P
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	Thermostat knob, button	P
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	Handle	P
23	INTERNAL WIRING		
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		P
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		P
	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		P
	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,		N/A
	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.		P
	A single layer of internal wiring insulation does not provide reinforced insulation		N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		
25.14	Supply cords moved while in operation adequately protected against excessive flexing	Interconnection cord	P
	Flexing test, as described:		--
	- load; 2 kg. (IEC 60335-2-3)	2 kg	P
	- number of flexings; 20 000 (IEC 60335-2-3)	20000 cycles	P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	The test is not carried out on cordless irons unless the iron can also be directly connected to the supply mains during ironing (IEC 60335-2-3)		N/A
	The test does not result in:		--
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current		P
	- breakage of more than 10% of the strands of any conductor		P
	- separation of the conductor from its terminal		P
	- loosening of any cord guard		P
	- damage to the cord or the cord guard		P
	- broken strands piercing the insulation and becoming accessible		P
	For steam irons with a separate water reservoir or boiler, the test is made on the steam hose and the interconnection cord together. If they are contained in one sheath or otherwise attached to each other, the assembly is not turned through an angle of 90° (IEC 60335-2-3)		P
	The test does not result in: (IEC 60335-2-3)		--
	- loosening of the hose		P
	- damage to the hose to such an extent that compliance with this standard is impaired		P
	- leakage from the hose		P
	Additional test with the appliance mounted on an apparatus similar to that of figure 8. The test is carried out on a separate appliance (IEC 60335-2-3)		N/A
	Flexing test:		--
	- applied force; 10 N		N/A
	- number of flexings; 2 000		N/A
	The appliance is mounted so that the direction of flexing corresponds to that most likely to occur when the supply cord is wound around it for storage. (IEC 60335-2-3)		N/A
	The test is not carried out if it is unlikely that the cord will be wrapped around the appliance, for example cordless irons and irons with a separate water reservoir. (IEC 60335-2-3)		P

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	All cords	P
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		P
	Pull and torque test of supply cord:		--
	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)		N/A
	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	1kg > Max. < 4 kg, 60N, 0,25Nm	P
	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	1kg > Max. < 4 kg, 60N, 0,25Nm	P
	Cord not damaged and max. 2 mm displacement of the cord	Max. 0,8mm	P
27	PROVISION FOR EARTHING		
27.5	Low resistance of connection between earthing terminal and earthed metal parts		P
	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance		N/A
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)	Max. 0,065 Ω	P
28.1	SCREWS AND CONNECTIONS		
	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		P
	Screws not of soft metal liable to creep, such as zinc or aluminium		P
	Diameter of screws of insulating material min. 3 mm	No such screws	N/A
	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	No such screws	N/A

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	Screws used for electrical connections or connections providing earthing continuity screwed into metal		P
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	No such screws	N/A
	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation		N/A
	For screws and nuts; torque-test as specified in table 14.....:	(see appended table)	P

Annex EN 62233:2008			
Clause	Requirement + Test	Result - Remark	Verdict
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008		
	Limit100%	Measured max.: <10 % Refer to EMF report: 171100488SHA-EMF01+A1	P

Appendix: EN 60335-1:2012/A13:2017			
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED		
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU		P
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations		P
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives		P
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED		N/A

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC		N/A
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements		N/A

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

10.1	TABLE: Power input deviation					P
Input deviation of/at:	P rated (W)	P measured (W)	dP (W, %)	Required dP (W, %)	Remark	
DF-188B at 220V	2200	1992	-9,5%	-10% ~ +5%	P	
DF-188B at 240V	2400	2374	-1,1%	-10% ~ +5%	P	

11.8	TABLE: Heating test, thermocouple measurements for DF-188B			P
	Test voltage (V)	2760W, 259V		—
	Ambient (°C)	21		—
Thermocouple locations	Max. temperature rise measured, dT (K)		Max. temperature rise limit, dT (K)	
Insulation of thermal link in iron	164		175(T-25)	
Ambient of adjustable thermostat	165		225(T-25)	
Ambient of non-adjustable thermostat	162		195(T-25)	
Internal wire	142		155(T-25)	
Heat isolating plate	150		For Cl.30.1	
Indicator lamp cover	62		For Cl.30.1	
Enclosure of iron	83		For Cl.30.1	
Ambient of steam switch in iron	19		80(T-25)	
Knob of thermostat	36		60	
Surface of handle/switch in iron	33		50	
Interconnection cord	37		60	
Power cord	7		50	
Enclosure of stand	51		For Cl.30.1	
Water tank	59		For Cl.30.1	
Wood support	8		65	
Supplementary information: Both appliance with the water reservoir empty and filled but without steam emission were tested, only the most unfavourable result was recorded.				
On three-pointed support				
Power cord	18		50	
Internal wire	144		155 (T-25)	
Interconnection cord	50		60	
Surface of textile hose	10		80	

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

11.Z101	TABLE: Heating test, thermocouples for DF-188B			P
	Test voltage (V)	259V		—
	Ambient (°C)	21		—
Thermocouple locations		Dt (K)	Max. Dt (K)	Twice Max. Dt (K)
Plastic surface		53	65	130

11.8	TABLE: Heating test, resistance method for DF-188B					N/A
	Test voltage (V)	259V				—
	Ambient, t1 (°C)	21				—
	Ambient, t2 (°C)	21				—
Temperature rise of winding		R1 (Ω)	R2 (Ω)	dT (K)	Max. dT (K)	Insulation class
Winding of electromagnetic valve		2278,6	2841,5	63	140	Class 180

13.2	TABLE: Leakage current			P
	Heating appliances: 1.15 x rated input (W)	2760		—
	Motor-operated and combined appliances: 1.06 x rated voltage (V)	N/A		—
Leakage current between			I (mA)	Max. allowed I (mA)
L/N – Earthing metal parts			Max.0,250	0,75
L/N – Enclosure (with metal foil or ungrounded metal parts)			Max.0,010 peak	0,35 peak
L/N – Knob/handle			Max.0,010 peak	0,35 peak

13.3	TABLE: Electric strength		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Parts isolated with basic insulation		1000	No
Parts isolated with supplementary insulation		1750	No
Parts isolated with reinforced insulation		3000	No

16.2	TABLE: Leakage current		P
	Single phase appliances: 1.06 x rated voltage (V)	254,4V	—
	Three phase appliances 1.06 x rated voltage divided by $\sqrt{3}$ (V)	N/A	—

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

Leakage current between	I (mA)	Max. allowed I (mA)
Live part– Earthing metal parts	Max.0,340	0,75
Live part – Enclosure (with metal foil or ungrounded metal parts)	Max.0,020	0,25
Live part – Switch/knobs/handle	Max.0,010	0,25

16.3	TABLE: Electric strength	P
Test voltage applied between:	Voltage (V)	Breakdown (Yes/No)
Live part – Earthing metal parts	1250	No
Live part– Enclosure (with metal foil or ungrounded metal parts)	1750	No
Live part – Switch/knob/handle	3000	No

19	Abnormal operation conditions for DF-188B							P
Operational characteristics	YES/NO	Operational conditions						
Are there electronic circuits to control the appliance operation?	Yes	No hazards						
Are there “off” or “stand-by” position?	NO	N/A						
The unintended operation of the appliance results in dangerous malfunction?	NO	N/A						
Sub-clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result	
19.4	As standard	No hazards	N/A	N/A	N/A	N/A	P	

19.13	TABLE: Abnormal operation, temperature rises	P
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
Wood support	17	150
Supply cord	28	150
Interconnection cord	51	150
Supplementary information: only the most unfavourable result recorded.		

24.1	TABLE: Components information	P
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IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
Non-adjustable thermostat for Electromagnetic valve	Ningbo Tongbao Huashuo Temp. Controller Co., Ltd.	KSD301-G	AC250V, 10A, T240, Tf135, 10E4	EN 60730-1 EN 60730-2-9	TUV*/ R 50205557
Steam switch	Zhejiang Yuyang Technology Co., Ltd.	LF-10-02x	250V~, 16(3)A, 5E4 T105	EN 61058-1	TUV*/ R 50096777

Supplementary information:

Please refer to the latest edition of the Constructional Data Form (CDF) issued for this test report.

28.1	TABLE: Threaded part torque test			P
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)	
Screws for electrical connection	2,9	II	0,5	
Screws for providing earthing continuity	3,9	II	1,2	

29.1	TABLE: Clearances					P
	Overvoltage category : II				—	
		Type of insulation:				
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**					N/A
500	0,2* / 0,5 / 0,8**					N/A
800	0,2* / 0,5 / 0,8**					N/A
1 500	0,5 / 0,8** / 1,0***					N/A
2 500	<u>1,5</u> / 2,0***	X	X		X	P
4 000	<u>3,0</u> / 3,5***			X		P
6 000	5,5 / 6,0***					N/A
8 000	8,0 / 8,5***					N/A
10 000	11,0 / 11,5***					N/A

Supplementary information:

*) For tracks on printed circuit boards if pollution degree 1 and 2

**) For pollution degree 3

***) If the construction is affected by wear, distortion, movement of the parts or during assembly

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P	
Working voltage (V):	Creepage distance (mm)							Type of insulation				Verdict
	Pollution degree											
	1	2			3							
		Material group			Material group							
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	B**	S**	R**	Verdict	
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		—	—	N/A	
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	—		—	N/A	
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	—	—		N/A	
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		—	—	N/A	
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	—		—	N/A	
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	—	—		N/A	
250	<u>0,56</u>	1,25	1,8	<u>2,5</u>	3,2	3,6	4,0	X	—	—	P	
250	0,56	1,25	1,8	<u>2,5</u>	3,2	3,6	4,0	—	X	—	P	
250	1,12	2,5	3,6	<u>5,0</u>	6,4	7,2	8,0	—	—	X	P	
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		—	—	N/A	
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—		—	N/A	
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—		N/A	
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		—	—	N/A	
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—		—	N/A	
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—		N/A	
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	N/A	
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	N/A	
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		N/A	
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	N/A	
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	N/A	
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		N/A	
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		—	—	N/A	
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—		—	N/A	
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	—	—		N/A	
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	N/A	

IEC 60335-2-3											
Clause	Requirement + Test								Result - Remark		Verdict
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—		—	N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—	—		N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		—	—	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—		—	N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	—	—		N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		—	—	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—		—	N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—	—		N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		—	—	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—		—	N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	—		N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		—	—	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—		—	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—	—		N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		—	—	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—		—	N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	—	—		N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		—	—	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—		—	N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	—	—		N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		—	—	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—		—	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—	—		N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		—	—	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—		—	N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	—	—		N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		—	—	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—		—	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—	—		N/A

Supplementary information:

*) Material group IIIb is allowed if the working voltage does not exceed 50 V
 **) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

29.2	TABLE: Creepage distances, functional insulation							P
Working voltage (V):	Creepage distance (mm) Pollution degree							Verdict / Remark
	1	2			3			
	Material group			Material group				
	I	II	IIIa/IIIb	I	II	IIIa/IIIb*		
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	P
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

Supplementary information:
*) Material group IIIb is allowed if the working voltage does not exceed 50 V

30.1	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm)	<2mm			—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	

IEC 60335-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
Heat isolating plate	*)	190	1,5
Enclosure of iron	*)	123	1,4
Supplementary information: *): Please refer to CDF			

30.2	TABLE: Resistance to heat and fire - Glow wire tests						P	
Object/ Part No./ Material	Manufactur er/ trademark	Glow wire test (GWT); (°C)				Verdict		
		550	650	750	850			
Heat isolating plate	*)	X				P		
Enclosure of iron	*)	X				P		
Non-adjustable thermostat for Electromagnetic valve	*)	X				P		
Steam switch	*)	X				P		
Object/ Part No./ Material	Manufacturer/ trademark	Glow-wire flammability index (GWFI), °C			GW ignition temp. (GWIT), °C			Verdict
		550	650	750	850	675	775	
							N/A	
The test specimen passed the glow wire test (GWT) with no ignition [(te – ti) ≤ 2s] (Yes/No):							Yes	
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No)..... :							N/A	
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?							Yes	
Ignition of the specified layer placed underneath the test specimen (Yes/No).....:							No	
Supplementary information: - 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances Supplementary information: *): Please refer to CDF								

Photo 1.

Description: Over view of DF-188B



Photo 2.

Description: Over view of DF-188B



Photo 3.

Description: Over view of DF-188B



Photo 4.

Description: Over view of DF-188B



Photo 5.

Description: Over view of DF-188B



Photo 6.

Description: Over view of DF-188B

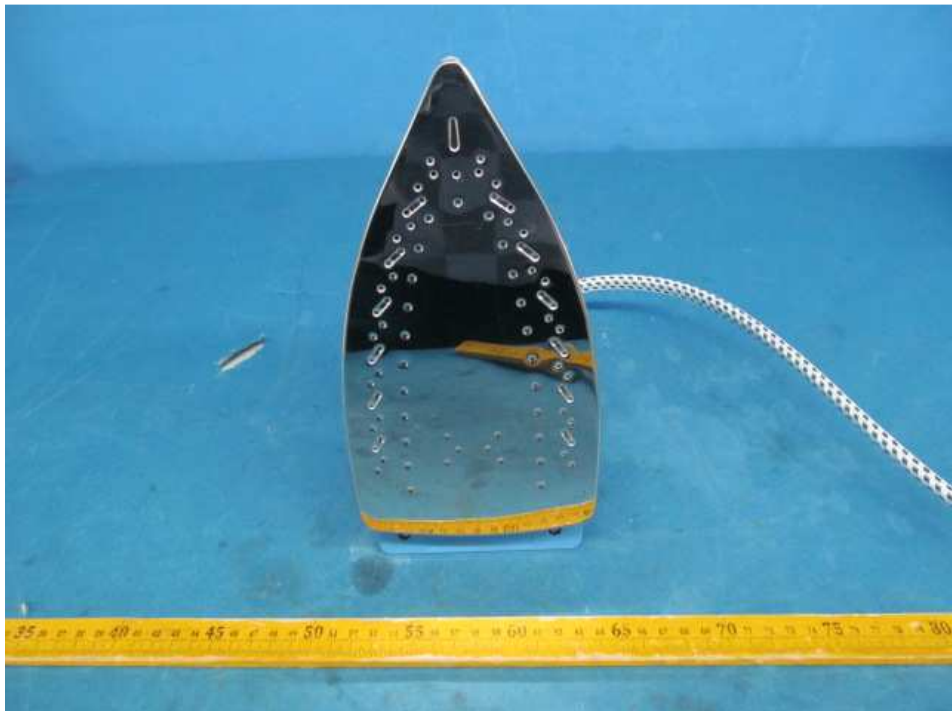


Photo 7.

Description: Internal view of DF-188B

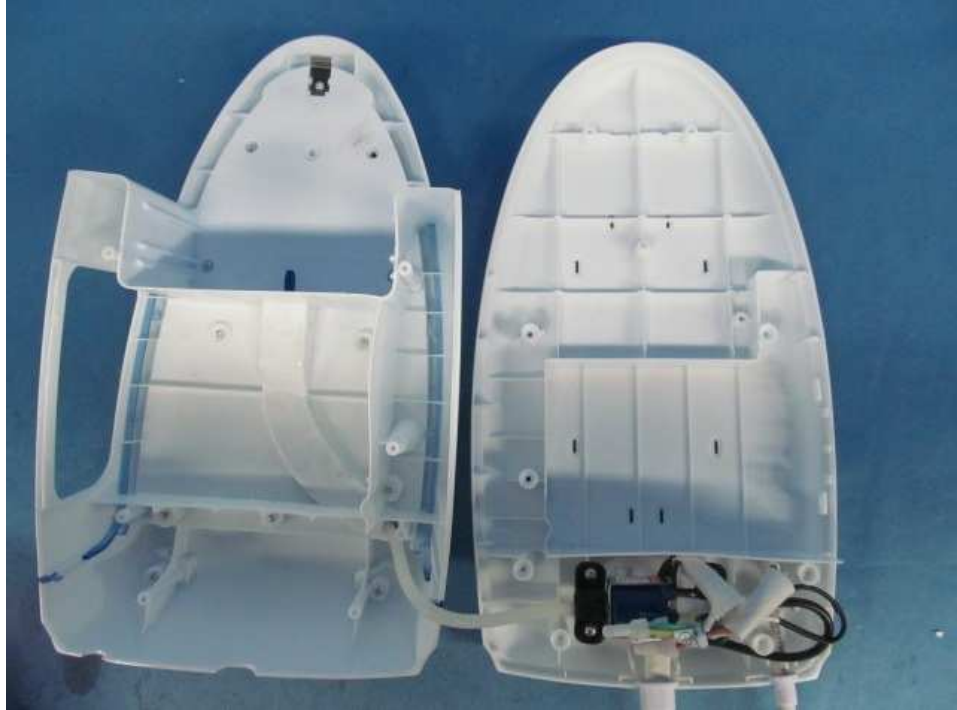


Photo 8.

Description: Internal view of DF-188B



Photo 9.

Description: Internal view of DF-188B



Photo 10.

Description: Internal view of DF-188B

