



<p><b>TEST REPORT</b>  <b>IEC 60335-2-13</b>  <b>Safety of household and similar electrical appliances</b>  <b>Part 2: Particular requirements for deep fat fryers, frying pans and similar appliances</b></p>	
Report Number. ....:	EFSH14120797-IE-01-L01-A5
Date of issue .....	2014-12-26; Amendment: 2017-08-23
Total number of pages.....:	14 pages
Applicant's name.....:	
Address .....	
<b>Test specification:</b>	
Standard .....	<input checked="" type="checkbox"/> EN 60335-2-13:2010 + A11:2012 <input checked="" type="checkbox"/> EN 60335-1:2012 + A11:2014 <input checked="" type="checkbox"/> EN 62233:2008
Test procedure .....	GS+CE-LVD
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC60335_2_13F
Test Report Form(s) Originator.....:	IMQ S.p.A.
Master TRF .....	Dated 2013-05
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Test item description .....	Frying Pan
Trade Mark .....	
Manufacturer.....:	
Model/Type reference .....	EFP-001, EFP-001-A, EFP-001-B, EFP-001-C, EFP-002, EFP-002-A, EFP-005, EFP-008, EPP-28, EPP-30, EPP-34, EPP-34-A, EPP-38, EPP-38-A, EPP-40, PP-004-34, PP-004-38, PP-010, PP-010-1, EPP-28-A, EPP-30-A, EPP-30-B
Ratings .....	220-240V~, 50-60Hz, Class I for all models
	EFP-001, EFP-001-A, EFP-001-B, EFP-001-C, EFP-002, EFP-002-A, EFP-005, EFP-008, EPP-28, EPP-30, EPP-34, EPP-34-A, EPP-38, EPP-38-A, EPP-40, PP-004-34, PP-004-38, PP-010, PP-010-1, EPP-30-B: 1500W; EPP-28-A, EPP-30-A: 1000W

<b>Testing procedure and testing location:</b>		
<input checked="" type="checkbox"/>	<b>Testing Laboratory:</b>	Eurofins Product Testing Service (Shanghai) Co., Ltd.
<b>Testing location/ address .....</b>		No. 395 West Jiangchang Road, Jing'an District, Shanghai, China
<input type="checkbox"/>	<b>Associated CB Testing Laboratory:</b>	
<b>Testing location/ address .....</b>		N/A
<b>Tested by (name + signature) .....</b>		Michael Liu (Project Engineer)
<b>Approved by (name + signature) .....</b>		Sean Shi (Project Supervisor)
		<i>Michael Liu</i> <i>Sean Shi</i>
<input type="checkbox"/>	<b>Testing procedure: TMP</b>	
<b>Testing location/ address .....</b>		N/A
<b>Tested by (name + signature) .....</b>		N/A
<b>Approved by (name + signature) .....</b>		N/A
<input type="checkbox"/>	<b>Testing procedure: WMT</b>	
<b>Testing location/ address .....</b>		N/A
<b>Tested by (name + signature) .....</b>		N/A
<b>Witnessed by (name + signature) .....</b>		N/A
<b>Approved by (name + signature) .....</b>		N/A
<input type="checkbox"/>	<b>Testing procedure: SMT</b>	
<b>Testing location/ address .....</b>		N/A
<b>Tested by (name + signature) .....</b>		N/A
<b>Approved by (name + signature) .....</b>		N/A
<b>Supervised by (name + signature) ..</b>		N/A

<b>List of Attachments (including a total number of pages in each attachment):</b> CDF: 7 pages (separate file) Photo documet: 3 pages (Incorporated in the main report)	
<b>Summary of testing:</b> From the result of our inspection and tests on the submitted samples, we conclude they comply with the requirements of the standards.	
<b>Tests performed (name of test and test clause):</b> <input checked="" type="checkbox"/> Cl.11 Heating <input checked="" type="checkbox"/> Cl.22 Construction	<b>Testing location:</b> Eurofins Product Testing Service (Shanghai) Co., Ltd. No. 395 West Jiangchang Road, Jing'an District, Shanghai, China
<b>Summary of compliance with National Differences</b> <b>List of countries addressed:</b> Germany and European Group Differences	

**Copy of marking plate (Representative, may differ with model number/ rated power input)**

**The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.**

Frying Pan  
EFP-001  
220-240V~ 50-60Hz 1500W



Imported by:  
(Full Name of the EU importer)  
(Full EU Address of the importer)  
Series number: xxxx – xxxx

<b>Test item particulars</b> .....	
<b>Classification of installation and use</b> .....	Portable appliance for household indoor use only
<b>Supply Connection</b> .....	Appliance inlet and cord set
.....	
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing</b> .....	
<b>Date of receipt of test item</b> .....	2017-08-15
<b>Date (s) of performance of tests</b> .....	2017-08-15 to 2017-08-23
<b>General remarks:</b>	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
<b>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</b> The related applicable CTL/OSM decisions have been considered and the requirements found fulfilled. For GS approval, EK1 601-15e Rev1, EK1 477-10, EK1 527-12 Rev2 and EK1 AG2 Rev 9 were considered.	
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-2-13:</b>	
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"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	
<b>Name and address of factory (ies)</b> .....	Same as the applicant

**General product information:**

The appliances covered by this report are Frying Pans for household indoor use only.

All of the models have the same construction except for the handle, the shape and the size of the pot.

Model differences and similarities are as below:

Model	Ratings	Pot caliber (cm)	Shape of the heating element
EFP-001	220-240V~, 50-60Hz, 1500W	--	Round
EFP-002		--	Rectangle
EPP-28		28	Round
EPP-30		30	Round
EPP-34		34	Round
EPP-34-A		34	Round
EPP-38		38	Round
EPP-38-A		38	Round
EPP-40		40	Round
PP-004-34		34	Round
PP-004-38		38	Round
PP-010		40	Round
PP-010-1		40	Round

After view, full test were performed on EPP-002 and EPP-40. Test of Cl.7, Cl.20, Cl.21, Cl.22 were performed on the other models and Cl.11.8 for PP-010 (only for metal handle).

**Amendment 1:**

The original test report ref. No. EFSH14120797-IE-01-L01, dated 2014-12-26 was modified on 2015-11-02 to include the following changes and/or additions:

1. Evaluation/Test method for PAH was updated to EK1 601-15e Rev1/Afps GS 2014:01 PAK.
- 2 Annex CDF report, PAH report were updated

After review, no tests need to be done.

**Amendment 2:**

The original test reports ref. No. EFSH14120797-IE-01-L01, dated 2014-12-26, ref no. EFSH14120797-IE-01-L01-A1, dated 2015-11-02, were modified on 2016-06-06 to include the following changes and/or additions:

1. Three new models: EPP-28-A, EPP-30-A and EPP-30-B were added.
2. EPP-28-A is same as EPP-28 in the previous report except that different rated power input.
3. EPP-30-A is same as EPP-30 in the previous report except that different rated power input.
4. EPP-30-B is same as EPP-30 in the previous report except that different earthing view.
5. Added an alternative connector without cord anchorage.

After review, only test of Cl.10 need considered for EPP-28-A and EPP-30-A.

Tests of Cl.10, Cl.13, Cl.15.3 and Cl.16 need considered for EPP-28-A and EPP-30-A.

Tests of Cl.13, Cl.15.3, Cl.16, Cl.25.15 and Cl.27 need considered for EPP-30-B.

**Amendment 3:**

The original test reports ref. No. EFSH14120797-IE-01-L01, dated 2014-12-26, ref no. EFSH14120797-IE-01-L01-A1, dated 2015-11-02, ref no. EFSH14120797-IE-01-L01-A2, dated 2016-06-06, were modified on 2016-09-29 to include the following changes and/or additions:

1. Modify the grounding screw view for all models.

After review, only tests of Cl.27 and Cl.28 need to be considered and EFP-002 was selected to the test as representative.

**Amendment 4:**

The original test reports ref. No. EFSH14120797-IE-01-L01, dated 2014-12-26, ref no. EFSH14120797-IE-01-L01-A1, dated 2015-11-02, ref no. EFSH14120797-IE-01-L01-A2, dated 2016-06-06, ref no. EFSH14120797-IE-01-L01-A3, dated 2016-09-29, were modified on 2017-06-09 to include the following changes and/or additions:

1. Five new models: EFP-001-A, EFP-001-B, EFP-002-A, EFP-005, and EFP-008 were added. Compared with EFP-001, the only difference is EFP-001-A has an additional stainless steel ring on the rim of the pan. Similar condition happens to EFP-002 and EFP-002-A. The only difference between EFP-001 and EFP-001-B is that the connection type of EFP-001 is welded while on EFP-001-B is die-casting molded. Similar condition happens to EFP-005 and EFP-008.
2. Add new optional shape of handle for PP series

After review, EFP-005 was subjected to do full of the tests as representative. Tests of Cl.11.8 (only for handle) and Cl.22 were performed on EPP-40.

**Amendment 5:**

The original test reports ref. No. EFSH14120797-IE-01-L01, dated 2014-12-26, ref no. EFSH14120797-IE-01-L01-A1, dated 2015-11-02, ref no. EFSH14120797-IE-01-L01-A2, dated 2016-06-06, ref no. EFSH14120797-IE-01-L01-A3, dated 2016-09-29, ref no. EFSH14120797-IE-01-L01-A4, dated 2017-06-09 were modified on 2017-08-23 to include the following changes and/or additions:

1. New model EFP-001-C was added. Compared with EFP-001, the only difference between EFP-001 and EFP-001-C is the material of handle: metal for EFP-001-C while plastic for EFP-001.

After review, test of Cl.11.8 (only for handle) and Cl.22 were performed on EFP-001-C.

This report is only valid in conjunction with the original test report: EFSH14120797-IE-01-L01, EFSH14120797-IE-01-L01-A1, EFSH14120797-IE-01-L01-A2, EFSH14120797-IE-01-L01-A3 and EFSH14120797-IE-01-L01-A4.

IEC 60335-2-13			
Clause	Requirement - Test	Result - Remark	Verdict
11	HEATING		--
11.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described .....	Placed away from the walls of the test corner	P
	Portable appliances are placed away from the walls of the test corner (IEC 60335-2-13)		P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		N/A
	the windings are non-uniform or it is difficult to make the necessary connections		N/A
	The temperature rise of the oil in deep fat fryers is determined by means of thermocouples attached to disk of copper or brass, 15 mm diameter and 1 mm thick (IEC 60335-2-13)		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W) .....	1878,2W	P
11.7	Appliance are operated until steady conditions are established (IEC 60335-2-13)		P
11.8	Temperature rises monitored continuously and not exceeding the values in table 3 .....	(see appended table)	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
	The temperature of the oil shall not exceed 225 °C, except (IEC 60335-2-13)		N/A
	that a temperature of 243 °C is allowed for the first cycle of operation of the thermostat (IEC 60335-2-13)		N/A
	The temperature rise of parts of deep fat fryers likely to be contacted by spilt oil shall not exceed 275 K (IEC 60335-2-13)		N/A
	When an appliance connector incorporates a thermostat, the temperature rise limit for the pins of the inlet does not apply (IEC 60335-2-13)		P

IEC 60335-2-13			
Clause	Requirement - Test	Result - Remark	Verdict
22	CONSTRUCTION		--
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		N/A
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	Handle	P
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		P
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation		P
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A
	This requirement does not apply to handles, levers and knobs on stationary appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal		N/A
	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation		N/A

IEC 60335-2-13			
Clause	Requirement - Test	Result - Remark	Verdict

<b>11.8</b>	<b>TABLE: Heating test (with lid closed)</b>		<b>P</b>
	<b>Test voltage (V).....:</b>	257,9	—
	<b>Ambient (°C).....:</b>	20	—
Thermocouple locations		Max. temperature rise measured, $\Delta T$ (K)	Max. temperature rise limit, $\Delta T$ (K)
Handle		14,2	35

Photo 1

Description: Over view of EFP-001-C



Photo 2

Description: Rear view 1 of EFP-001-C



Photo 3

Description: Handle view 1 of EFP-001-C



Photo 4

Description: Handle view 2 of EFP-001-C



Photo 5

Description: Handle view 3 of EFP-001-C

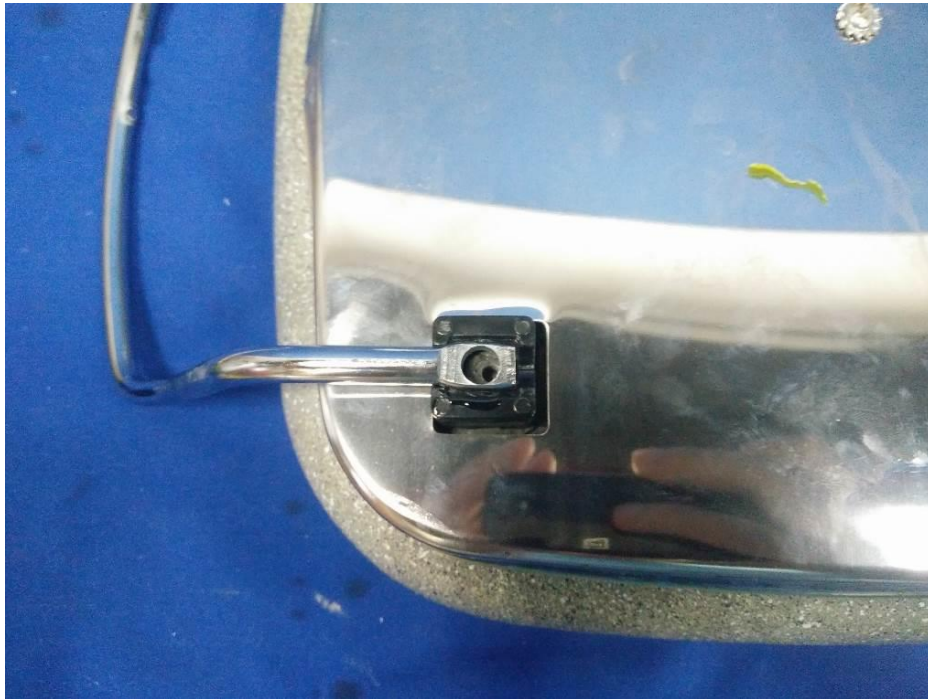


Photo 6

Description: Handle view 4 of EFP-001-C

