

SKL		INDUCTION COOKTOP TEST REPORT			DOC No:SKL:OQA:ICT001
Date: 22.9.2022		Model: Acer plus 1500W			EFFECTIVE DATE:1.03.2018
					ISSUE DATE:1.11.2021
Sl.No	Name of the test	Standard	Clause and Test method	Specification	Result
1	Protection against electric shock	IS 302-1	Cl.8	Appliance shall be constructed and enclosed so that there is adequate protection against accidental contact with live parts	Pass
2	Power Input and current	IS 302-2-6 IS 302-1	Cl.10.1	The power input of induction hob elements is measured separately and the tolerances for motor-operated appliances apply.(+15%)	V=233.4V I=4.97A W=1159.99W
3	Heating	IS 302-2-6	Cl.11.4 and Cl.11.7.101	Appliance and their surroundings shall not attain excessive temperature in normal use. Motor appliances are operated under normal operation and supplied with the most favourable voltage between 0.94 times and 1.06 times the rated voltage. Induction hob elements are supplied separately and operated as specified for motor-operated appliances. Induction hob elements are operated for 30 min. Other hob elements are operated for 60 min During the test, temperature shall not exceed the limit for 1. Moulding Material=60°C 2. Rubber insulation, handles, knobs =40°C	Dish tray = 33.4°C Outer glass = 52.6°C Bottom = 34°C
4	Leakage current test	IS 302-2-6 IS 302-1	Cl.13	Induction hob elements are tested as specified for motor-operated appliances (1.06 times the rated input voltage. After the appliance has been operated for the duration 30 mins, the controls are adjusted to their highest setting and the leakage current is measured within 10 s of it attaining its highest value. The leakage current shall not exceed the limit 210 micro amps.	NB = 46µA LE = 46µA
5	Electric strength test	IS 302-2-6 IS 302-1	Cl.13	A test voltage of 3000 V for 1 min is applied between live parts and the vessels.	with stood
6	Moisture resistance	IS 302-2-6 IS 302-1	Cl.15	The liquid container completely filled with water containing approximately 1 percent sodium chloride (NaCl) and positioned centrally over the cooking zone. A further quantity, equal to 15% of the capacity of the container or 0.25L, whichever is the greater, is poured in steadily over a period of 1. min. The appliance shall then withstand the electric strength test The humidity test is carried out for 48 h in a humidity cabinet containing air with a relative humidity not less than 90 percent. The temperature of the air is maintained within 1 K of any convenient value between 15°C and 35°C. Before being placed in the humidity cabinet, the appliance is brought to a temperature of t+4 °C The appliance shall then withstand the electric strength test	Pass Pass
7	Overload protection of transformers and associated circuits	IS 302-1	Cl.17	Induction hob is checked by applying the most unfavourable voltage between 0.94 times and 1.06 times the rated voltage.	Pass
8	Mechanical strength	IS 302-2-6	Cl.21.102	Appliance shall have adequate mechanical strength and be so constructed as to withstand such rough handling in normal use. Induction hob elements are operated for 30 mins. When steady conditions are established, the hob element is switched off and a loaded vessel is dropped flat 10 times from a height of 150 mm onto the cooking zone. The vessel has a flat copper or aluminium base over a diameter of 120 mm ± 10 mm, its edges being rounded with a radius of at least 10 mm. It is uniformly filled with at least 1.3 kg of sand or shot so that the total mass is 1.80 kg ± 0.01 kg. After subjecting each cooking zone in turn to this impact, the vessel is removed and all hob elements are operated simultaneously until steady conditions are established.	Pass
9	Stability and Mechanical Hazards	IS 302-1	Cl.20	The appliance is placed in any normal position of use on a plane inclined at an angle of 10° to the horizontal, the supply cord resting on the inclined plane in the most unfavourable position. However, if part of an appliance comes into contact with the horizontal supporting surface when the appliance is tilted through an angle of 10°, the appliance is placed on a horizontal support and tilted in the most unfavourable direction through an angle of 10°. The appliance shall not overturn. The test is repeated on appliances with heating elements with the angle of inclination increased to 15°. If the appliance overturns in one or more positions, it is subjected to the tests of Heating in each of these overturned positions. During this test, temperature rises shall not exceed 150K	Pass Pass
10	Abnormal operation	IS 302-2-6 IS 302-1	Cl.19	Induction hob elements are operated with empty vessels for 30 mins, the controls being adjusted to the highest setting. The electric strength test of induction hob elements is carried out immediately after switching off the appliance. Induction hob elements are supplied at rated voltage and operated with a steel disc placed on the centre of the cooking zone. The disc has a thickness of 6 mm and the smallest diameter, rounded up to the nearest centimetre that allows the hob element to operate. Induction hob elements are supplied at rated voltage and operated under normal operation but with thermal controls short-circuited. The temperature rise of the oil shall not exceed 270 K. During the test appliances shall not emit flames, molten metal or poisonous or ignitable gas in hazardous amounts and temperature rises shall not exceed the limit (150K)	Pass Pass
Tested by			Checked by		Approved By
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