

CTL Provisional DECISION SHEET (PDSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Publication date
IEC 60335-2-6:2014 IEC 60335-2-6:2014/A1:2018 IEC 60335-1: 2020	Clause 22.113 as per IEC 60335-2-6:2014 + AMD1:2018	2245A	2024
Category	Clause 5.5 as per IEC 60335-1:2020		
HOUS			
Subject	Keywords	Developed by	To be approved
Unintentional operation test	Clothes	ETF 1	2025 CTL Plenary Meeting
Question			
<p>Clause 22.113 requires that “A white cloth having a mass between 140 g/m² and 170 g/m², and dimensions approximately 400 mm x 400 mm, is folded four times into a square pad, saturated with water and placed over the control panel in any position.”</p> <p>Q1) How to ensure that the cloth is appropriately saturated with enough water?</p> <p>Q2) Should the entire cloth be placed on the control panel? Is it sufficient if a fragment of the cloth is placed on the control panel and the rest of the cloth is, for example, on the part of the hob that does not contain touch elements?</p> <p>Q3) The material of the cloth is not specified. Depending on the texture of the material, it will soak up varying amounts of water, which may cause differences in impact and pressure on the control panel. In view of that that, shouldn't the material from which the cloth is made be specified?</p> <p>Q4) Should vessels be placed on all hob elements (including those not in use) during the test? Some hobs will not activate the hob elements without a vessel on it.</p> <p>Additionally, some hobs after turning on the appliance require the user to select the hob element they want to energize and then to set the power. In such cases, at what point of time should the cloth be put on a control panel?</p> <p>Q5) Should the hob element be selected before putting the cloth on the plate (so the cloth just needs to “press” one button to energize the hob); or should the cloth be applied in a specific moment (for example, just after energizing one of the hobs in cases where one hob element is energized and after turning on the appliance in cases where no hobs element is energized).</p>			
Decision			
<p>Q1) clause 5.5 of IEC 60335-1:2020: most unfavourable. Soaking for 3 s in water completely as long as there is no water dripping from the cloth, without squeezing.</p> <p>Q2) clause 5.5 of IEC 60335-1:2020: most unfavourable position. After inspection and based on the touch-control technologies, it is sufficient that a fragment of the cloth covers partially the control panel until a point at which there will be no responsive reaction from the test control.</p> <p>Q3) clause 5.5 of IEC 60335-1:2020: most unfavourable. The material needs to have a high water absorption rate, however, it is questionable that different materials will make a difference for the test. The advice from TC 61 is to use white cotton similar to the cotton material used in clause 3.1.9 in 60335-2-7: 2024.</p> <p>Q4) clause 5.5 of IEC 60335-1:2020: most unfavourable position. The test has to be conducted with the vessel on each hob element, following the condition of clause 5.5 of Part 1 considering the most unfavourable conditions. Subject to the configuration of the hob control panel, the best way to do the test is to verify individual control panel for each cooking zone, when the other hob elements are active.</p>			

Q5) clause 5.5 of IEC 60335-1:2020: most unfavourable position. The selection and adjustment of a hob element shall be performed before placing the cloth and also after the hob element is energized, if this gives the most unfavourable condition.

Explanatory notes

This version of the decision was based on the previous PDSH 2245 approved in CTL meeting 2024 that was reviewed by IEC TC 61 in Hangzhou meeting in June 2024 to specify the practical way to apply the most unfavourable conditions of each of the test conditions of the enquiry.