

# Microwave Oven Leakage Testing



Microwave  
Oven  
Leakage  
Testing  
have a  
testing  
requirement  
to AS/NZS  
60335.2.25

Got  
Questions?

We're here to help

 1300 038

847

On this page you will find all the information that you need to know, to position yourself to ensure that your site is compliant with the appropriate regulations.

If you have any questions at all, please feel free to contact us via the phone number, or contact form on this page, as we are here to help.

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## What are the testing intervals?

12 Monthly Intervals for Microwave Oven Testing is required

## Why Test a Microwave Oven for Leakage?

Employers have a “Duty of Care”, to ensure their workplace is safe, and suggest the testing of microwave ovens in the workplace annually as a minimum standard.

Radiation leakage from a microwave often occurs through the doors and seals, which is invisible to see. These harmful radiation leakages can cause harm to the health of the users. We test to ensure omitting Radiation levels are kept at a safe level, as set by the Radiation Health Committee

What could cause a Microwave Oven to leak is – slamming the door, dirt or food particles caught in the door seals and hinges, or basic wear and tear all cause the oven door to slightly separate from the oven enclosure. Once this happens, invisible, but highly dangerous microwaves leak through the small space and cause irreversible damage and injury to the user and you may be exposing yourself & staff to dangerous levels of radiation leakage

The Australian Standard states that exposure to sufficiently high levels of microwaves will cause heating, and in the case of human tissue, excessive heating could have serious health effects such as deep tissue burns and hypothermia.

## How is Microwave Oven Testing Inspection carried out?

The Microwave Oven is inspected for any physical damage to ensure safety to comply with standard AS/NZS 60335.2.25 and a Radiation Leakage Inspection of the microwave using a Microwave Radiation Leakage Detector to measure & test to ensure that Radiation levels are below limits as specified in AS/NZS 60335.2.25.

## What legislation applies?



### Australian Standards

AS/NZ603335.2.25 – Household and similar electrical appliances – Safety – Particular requirements for microwave ovens including combination microwave ovens & AS/NZS 3760:2010.

AS/NZS 60335.2.25 have set guidelines for permissible levels of radiation leakage from microwave ovens used in a workplace or public place environment.

The National Health and Medical Research Council recognises that some microwave radiation may escape from ovens and has laid down a standard of safety for leakage radiation. It believes that compliance with this standard will ensure the public health is not affected by the use of microwave ovens.

This standard AS/NZS 60335.2.25 of safety, states that the microwave leakage power flux density of microwave radiation from any microwave oven, shall not exceed shall not exceed  $50\text{W}/\text{m}^2$  ( $5\text{mW}/\text{cm}^2$ ) or more from the external surface of the oven.

## Your Next Steps:

So that we can best assist you and your business with your compliance needs, please **contact us** on 1300 038 847 and ask to speak to Tracy. Tracy Cox has extensive experience in the industry, and is a great resource for determining your electrical safety requirements, to ensure that your business is compliant in your industry. We can provide you with a copy of the relevant testing standard for your industry and equipment.