

The Mandatory Energy Efficiency Labelling Scheme - FOR INDUCTION COOKER

The third phase of the Mandatory Energy Efficiency Labelling Scheme (MEELs) is effective from 1 December 2019. Under the third phase of the MEELs, televisions, storage type electric water heaters and induction cookers are included. Understanding the challenges faced by retailers, manufacturers, distributors and suppliers, STC responded rapidly by providing the full range of testing services to ensure the above-mentioned products are in compliance with the MEELs.

For Induction Cooker:

- a) that is an encased assembly using **electromagnetic induction heating** as the heat source for household cooking; and
- b) that
 - i. uses **mains electricity** as the only power source;
 - ii. has a rated power **not fewer than 700 watts but not exceeding 3,500 watts** for each heating unit; and
 - iii. has a total rated power **not exceeding 7,000 watts**.

Tests Required to be Carried Out

The tests specified below are **required to be carried out**, in accordance with GB 21456 or other equivalent international standards, in order to find out the **energy efficiency and performance characteristics** of induction cookers. The test report required under Section 6 of the Ordinance shall contain below test results:

- (a) **Input power test;**
- (b) **Thermal efficiency test;** and
- (c) **Standby power consumption test.**

Energy Efficiency Grading

The energy efficiency grading of induction cookers shall be determined by their rated power as shown in below table, with **Grade 1 signifying the best performance** and Grade 5 signifying the worst.

Derivation of Energy Efficiency Grades		
Rated and Measured Thermal Efficiency, η (%)		Energy Efficiency Grade
Rated Power of Heating Unit > 1,200W	Rated Power of Heating Unit \leq 1,200W	
$\eta \geq 90$	$\eta \geq 88$	1
$90 > \eta \geq 88$	$88 > \eta \geq 86$	2
$88 > \eta \geq 86$	$86 > \eta \geq 84$	3
$86 > \eta \geq 84$	$84 > \eta \geq 82$	4
$\eta < 84$	$\eta < 82$	5

$$\eta = (c1 \times m1 + c2 \times m2) \times \Delta t \times 100\% / (3.6 \times 10^3 \times E)$$



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