

# Proposal for Amendments to the Legal Inspection Requirements for Microwave Ovens

**By the Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs**

## **Introduction:**

In line with the energy policy, the BSMI proposes to require that microwave ovens be subject to Section 6 “General conditions for measurements”, Section 8 “Determination of microwave power output” and Section 9 “Efficiency” of CNS 60705: 2018, and CNS 62301: 2017.

The measured efficiency and standby power shall comply with the Table of “MEPS for Microwave Ovens” as stated in “Requirements on Minimum Energy Performance Standard, Energy Efficiency Indication, and Inspection for Microwave Ovens” to be adopted by the Bureau of Energy, which was notified as G/TBT/N/TPKM/456.

The conformity assessment procedures for products subject to this notified measure remain the same, i.e. Registration of Products Certification (RPC) or Type-Approved Batch Inspection (TABI).

## **Proposed date of implementation:**

1 Jan 2023

<b>Description of Goods</b>	<b>Inspection Standards</b>	<b>C.C.C. Code (the first 6 digits are the same as HS Code)(Reference)</b>
Microwave ovens (inspection scope: rated voltage not exceeding 250V)	1. CNS 60335-1: 2014 & CNS 60335-2-25: 2016 2. CNS 13803: 2003 3. CNS 15663: 2013 Section 5 “Marking of Presence” 4. For products under the scope of “Requirements on Minimum Energy Performance Standard, Energy Efficiency Indication, and Inspection for Microwave Ovens”: CNS 60705: 2018 Section 6 “General conditions for measurements”, Section 8 “Determination of microwave power output” and Section 9 “Efficiency”, and CNS 62301: 2017. The measured efficiency and standby power shall comply with the Table of “MEPS for Microwave Ovens.”	8516.10.00.00.9C

**Conformity assessment procedures: No change.**

## **Related requirements:**

1. Microwave ovens powered by USB cord/port DC 5V and without an AC to DC adaptor, only powered by and with power supply products for automotive cigar lighter, only powered by three-phase or only-batteries shall not be subject to legal inspection.
2. The revised inspection standards of the commodities listed above will come into force on the date of announcement and the current inspection standards will become invalid from 1 Jan 2023. The applicable inspection schemes, conformity assessment modules of RPC and duration of certificates for the commodities above will remain unchanged.
3. National deviation:
  - (1) The supply cords shall at least comply with CNS 15767-1 “Plugs and socket-outlets for household and similar purposes – Part 1: General requirements.”

- (2) Class 0 structure is not allowed.
- 4. The certificate holders of the commodities shall follow the content stipulated in Section 5 “Marking of presence” of CNS 15663 and clearly mark “the presence condition of the restricted substances” on the body, packages, stickers, or the instruction books of the commodities. Those who utilize website as a means to announce “the presence condition of the restricted substances” of the commodities shall also clearly mark the website address on the body, packages, stickers, or the instruction books of the commodities. In that case, the requirements of Section 5.3 of CNS 15663 are not applicable to the positions of the markings.

5. Processing of applications:

(1) Replacement:

Before 1 January 2023, the certificate holders shall apply to the BSMI or its branches for replacement of their certificates by preparing type-test reports and technical documents based on CNS 60705 and CNS 62301. The expiration date of the replaced certificates will be the same as that of the original certificates. Certificates that are not replaced before 1 January 2023 will be rescinded based on Paragraph 1, Article 16 of the “Regulations Governing Type Approval of Commodities” or Paragraph 9, Article 42 of the “Commodity Inspection Act.”

(2) New application or Extension:

From the date of announcement, applicants shall apply for certificate(s) according to the revised inspection standards by preparing the required type-test reports, technical documents as well as documents indicating the location of the “marking of presence,” samples of the “Marking of Presence” (see Tables 1 and 2), and the “Declaration of the Presence Condition of the Restricted Substances Marking.” The validity period of certificate will be 3 years. The certificates will be valid till 31 December 2022 if the application is made based on the current inspection standards.

6. The Commodity Inspection Mark:

- (1) The Commodity Inspection Mark shall be printed by the certificate holders. The identification number of the Commodity Inspection Mark consists of “A Letter (R or T),” “Designated Code (5 digits)” and “the presence conditions of the restricted substance” (e.g. RoHS or RoHS(XX,XX)).
- (2) The identification number shall be placed below or right next to the graphic symbol and “the presence conditions of the restricted substance” shall be indicated in the second row.
- (3) The size of the Mark can be applied proportionally on a prominent location of the commodities. The Mark shall use materials that are not easily altered, and the content shall be in a clearly identifiable and indelible form affixed permanently to the commodity.
- (4) For RPC scheme, the examples of the Commodity Inspection Mark are listed below:



(5) For TABI scheme, the examples of the Commodity Inspection Mark are listed below:



(6) “RoHS” indicates “the content of restricted substance(s), other than exemptions stated in CNS 15663, does not exceed the reference percentage value of presence condition.

“RoHS(XX,XX)” indicates the content of restricted substance(s) (element XX, element XX, ...), other than exemptions stated in CNS 15663, exceeds the reference percentage value of presence condition.

Restricted substances: Pb, Cd, Hg, Cr<sup>+6</sup>, PBB, and PBDE.

Examples:

- RoHS (Pb) indicates that the percentage content of Pb in certain parts of the commodity exceeds the reference percentage value specified in Annex A to CNS 15663.
  - RoHS (Cd, Cr<sup>+6</sup>, PBB) indicates that the percentage content of Cd, Cr<sup>+6</sup>, and PBB in certain parts of the commodity exceeds the respective reference percentage value specified in Annex A to CNS 15663.
7. The C.C.C. Code listed in the table is used for reference only. The commodity listed in the table shall still complete the inspection procedures before entering into the market even though their C.C.C. Code is identified differently by the Customs Administration, Ministry of Finance or Bureau of Foreign Trade, Ministry of Economic Affairs.
  8. The inspection standards of the products listed in the table shall be the version published in this announcement. If any updated version is available, the BSMI shall publish the implementation date of the updated version in further announcement.
  9. Commodities with combined features or multifunctional products shall comply with the respective inspection standards and conformity assessment procedures of RPC scheme.

Table 1. Example of markings for the presence conditions of the restricted substances exceeds the reference percentage value of presence conditions

Equipment name: Microwave ovens, Model : XXX(*)						
Unit	Restricted substances and its chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr <sup>+6</sup> )	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Circuit board	Exceeding 0.1 wt %	○	○	○	○	○
Magnetron	○	○	○	○	○	○
Power switch	—	Exceeding 0.1 wt %	○	○	○	○
Power cord	○	○	○	○	○	○
Shell	○	○	Exceeding 0.01 wt %	○	○	Exceeding 0.1 wt %
<p><b>Note 1:</b> “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value.</p> <p><b>Note 2:</b> “○” indicates that the percentage content of the restricted substance does not exceed the reference percentage value.</p> <p><b>Note 3:</b> The “—” indicates that the restricted substance is exempted.</p>						

Table 2. Example of markings for the content of the restricted substances other than exemption do not exceed the reference percentage value of presence condition

Equipment name: Microwave ovens, Model : YYY(*)						
Unit	Restricted substances and its chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr <sup>+6</sup> )	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Circuit board	○	○	○	○	○	○
Magnetron	○	○	○	○	○	○
Power switch	-	○	○	○	○	○
Power cable	○	○	○	○	○	○
Shell	○	○	○	○	○	○
<p><b>Note 1:</b> “○” indicates that the percentage content of restricted substance does not exceed the reference percentage value.</p> <p><b>Note 2:</b> The “-” indicates that the restricted substance is exempted.</p>						

(\*) The “name and model” can be omitted if the position of the “markings for the presence conditions” clearly identifies the corresponding commodity. Multiple types could be shown together if the “markings for the presence conditions” are applicable.