

# JIS

## JAPANESE INDUSTRIAL STANDARD

### Plastics food receptacles for microwave oven use

JIS S 2033—1991

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In the event of any doubt arising,  
the original Standard in Japanese is to be final authority.

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Plastics food receptacles for microwave oven use S 2033-1991

1. Scope

This Japanese Industrial Standard specifies plastic food receptacles <sup>(2)</sup> used for microwave ovens <sup>(1)</sup> specified in JIS C 9250, hereafter referred to as receptacles.

However, receptacles in the form of plates <sup>(3)</sup>, those for temporary use, those in the form of bags, and those using metals are excluded.

Notes <sup>(1)</sup> Limited to high-frequency heating ovens.

<sup>(2)</sup> Receptacles with indicated resistible temperatures of 140°C or higher specified in the Domestic Utensils Quality Indication Law (Law No. 104, 1962).

<sup>(3)</sup> Receptacles in the form of flat plates and those with brim heights within 1 cm.

Remarks: The Standards cited in this Standard are as shown below.

JIS B 1501 Steel Balls for Ball Bearings

JIS C 1602 Thermocouples

JIS C 9250 Microwave Ovens

JIS K 6900 Glossary of Terms Used in Plastic Industry

JIS L 0804 Grey Scale for Assessing Change in Colour

JIS S 2047 Plastic Food Receptacles with Lids for Table Use

2. Definition

The definitions of the main terms used in this Standard shall be as shown below except as specified in JIS K 6900.

(1) high-frequency heating Heating by electromagnetic waves with frequencies in the 2450 MHz zone (high-frequency waves).

3. Quality

3.1 Appearance The appearance of receptacles shall meet the following requirements.

(1) There shall be no chips, cracks, fissures, or incomplete shapes.

(2) There shall be no foreign matter, bubbles, mould marks, shrink marks, weld marks, burrs, swelling, or other remarkable flaws.

(3) There shall be no stains irremovable even by wiping with wet cloth.

(4) There shall be no remarkable discoloration, decoloration, uneven coloring (excluding uneven coloring for decorative purposes), cloudiness, or the like.

(5) Coloration and decorative patterning shall be made excellently.

**3.2 Construction** The construction of receptacles shall meet the following requirements.

- (1) The receptacle proper shall produce no water leakage.
- (2) The fit between the receptacle proper and the lid shall be good.
- (3) In clamp type receptacles, the joint and assembly of clamps shall be made with sufficient strength for trouble-free use.
- (4) In receptacles using packings, the packings shall not drop off in normal use.
- (5) Receptacles shall sit well.

**3.3 Sanitariness** Receptacles shall comply with the standard for food, additives, etc. (the Ministry of Health and Welfare Notification No. 370, 1959) based on the Food Sanitation Law (Law No. 233, 1947).

**3.4 Performance** The performance of receptacles shall be tested according to 5., and meet the requirements of Table 1.

Table 1. Performance

Item	Performance	Test method
Suitability of oven high-frequency	No abnormalities in receptacle and no sparks occurring.	5.3
Thermal resistance	No abnormalities causing defects in use.	5.4
Impact resistance	No breakage occurring.	5.5
Endurance	No abnormalities causing defects in use; resistance to discoloration and decoloration being grade 3 or higher; no breakage occurring by test of 5.5.	5.6
Odor and taste	No odor or taste.	5.7
Durability of clamps (4)	No cracks and no abnormalities causing damage in normal use.	5.8

Note (4) This item applies to clamp type receptacles.