Applicant submit following documents:
1. Certificate of Approval Manufacturer or Importer (Borang I or J)
2. Accredited Test Report that carry ILAC/MRA logo according to BS EN 30 or MS 1535 or JIS S 2093, JIS S 2103, JIS S 2092, JIS 2010
3. Product drawing (bill of material)
4. Product additional information (Form provided by SIRIM)

Notify SIRIM when batch arrived and submit the following forms:
(1) K1 form (2) Invoice (3) Packing List (4) Receipt from custom (5) Letter Assessment (6) Bill of Lading

Perform confirmatory test (Leakage & Consumption)

Applicant submit following documents:

- **Certificate of Approval Manufacturer or Importer (Borang I or J)**
- **Accredited Test Report that carry ILAC/MRA logo according to BS EN 30 or MS 1535 or JIS S 2093, JIS S 2103, JIS S 2092, JIS 2010**
- **Product drawing (bill of material)**
- **Product additional information (Form provided by SIRIM)**

Apply from SIRIM Type Test Report Evaluation

- **Test Report Evaluation (Letter Assessment)**

Apply Certificate of Approval from ST (Borang K)

Submit sample for full type test against BS EN 30 or MS 1535 or JIS S 2093, JIS S 2103, JIS S 2092, JIS 2010

Perform confirmatory test (Leakage & Consumption)

## Domestic Gas Cooker

**MANUFACTURER (Foreign/Importer)**

**Batch Certification Type 1b (short-term)**

**Apply from SIRIM Product Certification Scheme (TYPE 1b)**

**TYPE 1B Assessment**

**Award of Batch Certificate**

BY SIRIM LINK

Register at Online Application System (OAS) website http://oas.st.gov.my/
STANDARD (MS 1535:2002 )
Domestic Gas Cooking Appliances for Use with Liquefied Petroleum Gases
CLASSIFICATION

- Cooking Burner
- Grill
- Oven
- Rice Cooker
- Complex Type
- Cooking Table
<table>
<thead>
<tr>
<th>TYPE OF TEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leakage</td>
</tr>
<tr>
<td>Gas Consumption</td>
</tr>
<tr>
<td>Combustion</td>
</tr>
<tr>
<td>Sound Pressure Level</td>
</tr>
<tr>
<td>CO Concentration</td>
</tr>
<tr>
<td>Temperature Rise</td>
</tr>
<tr>
<td>Heat Shock Resistance</td>
</tr>
<tr>
<td>Ignition</td>
</tr>
<tr>
<td>Safety Devices</td>
</tr>
<tr>
<td>Duty Cycle/Endurance</td>
</tr>
<tr>
<td>Vibration</td>
</tr>
<tr>
<td>Operational</td>
</tr>
<tr>
<td>Structure, Materials</td>
</tr>
<tr>
<td>Dimension &amp; Construction</td>
</tr>
</tbody>
</table>
SAMPLE PREPARATION

Finished Product
3 units in original packing

Parts
3 units of gassing parts (burner, valve, gas inlet attachment, nozzle and etc) with identification name
SAMPLE PREPARATION

Materials

- 3 samples of each gasket used
- Rubber materials (100mm x 2mm thick) 2 pieces
- 20g of sealing materials
- Corrosion test
- Prepare 3 layer of metal with dimension of 130mm x 100mm
- The materials and surface treatment (coating) of the above samples must be the same as the construction of appliance body
SAMPLE PREPARATION

**Documentations**

- Detail drawing of the appliance.
- Detail drawing with material used of the appliances.
- Detail information on seal materials used for gas passing parts or for maintaining gas tightness.
- Instruction manuals.
- Information on coating method/techniques and coating material used.
- Information on insulating materials used (if applicable).
Estimated Testing Duration
4 weeks from date of acceptance of complete application

Testing Fees
RM 6000.00*

*The testing fee applies only for basic two-burner tabletop LPG gas cooking appliances and not applicable to any two-burner tabletop that come with extra features such as electric cooking function, ignition using AC/DC power supply, gas consumption changeover device, flame failure shut-off device, temperature control and flame detecting device. Please consult us for any clarification.
DESIGN
## TEST SEQUENCE

<table>
<thead>
<tr>
<th>TEST</th>
<th>Sample 1</th>
<th>Sample 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration</td>
<td>*</td>
<td></td>
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<tr>
<td>Marking</td>
<td>*</td>
<td>*</td>
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<tr>
<td>Gas Tightness</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Ignition</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Input Rate</td>
<td>*</td>
<td>*</td>
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<tr>
<td>Combustion</td>
<td>*</td>
<td>*</td>
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<tr>
<td>Temperature Rise</td>
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<tr>
<td>Efficiency</td>
<td>*</td>
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<tr>
<td>Endurance</td>
<td>*</td>
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<tr>
<td>Heat Resistance</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>
## TEST SEQUENCE

<table>
<thead>
<tr>
<th>TEST</th>
<th>Sample 3</th>
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</thead>
<tbody>
<tr>
<td>Construction</td>
<td>*</td>
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<tr>
<td>Dimensions</td>
<td>*</td>
</tr>
<tr>
<td>Corrosion</td>
<td>*</td>
</tr>
<tr>
<td>Heat Resistance</td>
<td>*</td>
</tr>
<tr>
<td>Materials</td>
<td>*</td>
</tr>
<tr>
<td>Appliance Marking</td>
<td>*</td>
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<tr>
<td>Instruction Manual</td>
<td>*</td>
</tr>
</tbody>
</table>
TESTING EQUIPMENTS


Salt Spray/Corrosion Tester, Soap-Film Leak Tester, CO Analyser, Sound Level Meter, Rubber Hardness Tester (Shore A and IRHD), Wooden Temperature Panel.
WHY GAS APPLIANCES NEED TO COMPLY WITH THE STANDARD?
To avoid any gas leakage from the system

Good flame condition (flame failure, flame lifting, blue flame, back fire, no soot).

CO concentration produced must be below 0.14 vol%.

Constructed from non-corroded materials

Rigid structure

Minimum gas consumption with high efficiency

Combustion efficiency must be more than 40%.
VERIFICATION TEST

STANDARD
BS EN 30-1-1:2008+A3:2013
Domestic cooking appliances burning
Gas Safety General
<table>
<thead>
<tr>
<th>Clause</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| 1. Clause 6.1.1  
Soundness. | Under the test conditions, any leak detected during each of the tests shall not exceed 0.10 dm$^3$/h. |
| 2. Clause 6.1.2 & 6.1.7  
Obtaining the input rates.  
Total input of the appliances. | Obtaining the input rates.  
Under the test conditions, each of the burners, supplied separately, shall be capable of giving the nominal heat input stated by manufacturer.  
The requirement is deemed to be satisfied if the nominal heat input $Q_n$ is within the limits indicated below:  
a) $Q_n$ of the burner does not exceed 2.25kW, the tolerance shall be ± 8%.  
b) $Q_n$ of the burner does exceed 2.25kW and does not exceed 3.6kW, the tolerance shall be ± 0.177kW.  
c) $Q_n$ of the burner does not exceed 3.6kW, the tolerance shall be ± 5%.  
d) For burners fitted with injectors of diameter more than 0.3mm but not exceeding 0.5mm, the tolerance shall be ± 10%.  
e) For burners fitted with injectors of diameter not exceeding 0.3mm, the tolerance shall be ± 20%.  
Total input of the appliances.  
Under the test conditions, the total input of the appliance, all the tap being in fully open position, shall not be more than 10% less than the sum of the individual inputs of the different burners supplied separately under the same conditions. |