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## JIS E 3023 : 1992

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# Insulating materials of insulated rail joint—Test methods

**ICS** 45.080

**Descriptors** : railway fixed equipment, railway signals, railway rails, electrical insulating materials, plastics, vulcanized fibre, water-resistance tests

Reference number : JIS E 3023 : 1992 (E)

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#### Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Transportation through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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### Insulating materials of insulated rail joint—Test methods

1 Scope This Japanese Industrial Standard specifies performance testing methods of insulating materials made of plastics and vulcanized fibres used for the rail insulating of the railway signaling equipment.

Remarks 1 Normative references of this Standard are shown as follows.

- JIS B 7724 Brinell hardness testing machines
- JIS B 7726 Rockwell and Rockwell superficial hardness testing machines
- JIS C 1302 Insulation resistance testers
- JIS K 6900 Plastics—Vocabulary
- JIS K 6902 Testing method for laminated thermosetting decorative sheets
- JIS K 6911 Testing methods for thermosetting plastics
- JIS K 7110 Method of izod impact test for rigid plastics
- JIS K 7112 Methods for determining the density and specific gravity of plastics
- JIS R 6252 Abrasive papers
- JIS Z 2243 Method of Brinell hardness test
- JIS Z 8703 Standard atmospheric conditions for testing
- 2 The units and numerical values given in { } in this Standard are based on the traditional units and are appended for information.

2 Definitions For the purposes of this Standard, the definitions given in JIS K 6900 and the following definitions apply.

- (1) **insulation plate** The insulating materials, whose shape is the same as to that of the rail section, and inserted into the gap between the front and rear rails at the rail joint to insulate both rails.
- (2) **plate** The plate type insulating materials, inserted into the gap between the rail side surface and rail joint board to insulate both.
- (3) **tube** The tubular type insulating materials, attached to the joint board bolt to insulate the bolt, rail and the joint board.
- (4) **washer** The plain washer type insulating materials, attached to the joint board bolt to insulate the bolt, nut and the joint board.

#### **3** Test conditions

3.1 Atmospheric conditions for testing The atmospheric conditions for testing shall be the room of normal temperature and normal humidity specified in JIS Z 8703 unless otherwise specified.

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