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**Railway rolling stock — High and low
temperature test methods of parts**

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Foreword

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

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Divisional Council on Railways and Rolling Stock

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In the event of any doubts arising as to the contents,
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Railway rolling stock — High and low temperature test methods of parts

1 Scope This Japanese Industrial Standard specifies the high and low temperature test methods for rolling stock parts.

NOTES 1 Rolling stock parts specified in this Standard include electric equipment, brake components and hydraulic components, and exclude equipment for controlling temperature (heating and cooling equipment).

2 The following standards are cited in this Standard.

JIS C 0010 *Environmental testing Part 1 : General and guidance*

JIS E 4001 *Railway rolling stock — Vocabulary*

JIS Z 8703 *Standard atmospheric conditions for testing*

2 Terms and Definitions For the purpose of this Standard, the terms and definitions given in JIS E 4001 apply.

3 Classification of tests and abbreviations Classification of tests and the abbreviations shall be in accordance with table 1.

Table 1 Classification of tests and the abbreviations

Classification of test	Abbreviation	Main purpose of test
High temperature exposure test	TSH	Test to verify the function and performance of the parts after exposing the parts to high temperature.
Low temperature exposure test	TSL	Test to verify the function and performance of the parts after exposing the parts to low temperature.
High temperature operation test	TDH	Test to verify the function and performance of the parts when operating the parts at high temperature.
Low temperature operation test	TDL	Test to verify the function and performance of the parts when operating the parts at low temperature.

4 Testing device

4.1 General The device used in the test shall be a thermostatic oven with the capabilities specified in 4.2 and 4.3.

4.2 Stability of temperature in thermostatic oven In accordance with 4.6 of JIS C 0010, the temperature in the thermostatic oven shall be the mean value of temperatures, measured with a temperature detector located in several points as specified on the relevant standards of the parts, on the horizontal plane 0 mm to 50 mm below the