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**Automobiles—Rate of fuel  
consumption test methods**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by Society of Automotive Engineers of Japan, Inc. (JSAE)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS D 1012 : 1997** is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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# Automobiles—Rate of fuel consumption test methods

## 1 General

**1.1 Scope** This Japanese Industrial Standard specifies test methods for fuel consumption rate (hereafter referred to as “fuel consumption”) of automobiles with a vehicle mass of not more than 3 500 kg measured on a chassis dynamometer. See Annex 1 (informative) for test methods for on-road fuel consumption. However, this Standard is not applicable to two-wheeled vehicles.

**1.2 Normative references** The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS D 0102 *Road vehicles—Dimensions, masses, weights and performances—Vocabulary*
- JIS D 1030 *Automobiles—Analytical procedure for measurement of carbon monoxide, carbon dioxide, total hydrocarbons and oxides of nitrogen in exhaust gas*
- JIS K 2202 *Motor gasoline*
- JIS K 2204 *Diesel fuel*
- JIS K 2240 *Liquefied petroleum gases*
- JIS K 2249 *Crude petroleum and petroleum products—Determination of density and petroleum measurement tables based on a reference temperature (15 °C)*
- JIS K 2254 *Petroleum products—Determination of distillation characteristics*
- JIS K 2255 *Petroleum products—Gasoline—Determination of lead content*
- JIS K 2258 *Crude oil and petroleum products—Determination of vapour pressure—Reid method*
- JIS K 2261 *Petroleum products—Motor gasoline and aviation fuels—Determination of existent gum—Jet evaporation method*
- JIS K 2265 *Crude oil and petroleum products—Determination of flash point*
- JIS K 2280 *Petroleum products—Fuels—Determination of octane number, cetane number and calculation of cetane index*
- JIS K 2283 *Crude petroleum and petroleum products—Determination of kinematic viscosity and calculation of viscosity index from kinematic viscosity*
- JIS K 2536 *Liquid petroleum products—Testing method of components*
- JIS K 2541 *Crude oil and petroleum products—Determination of sulfur content*