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JIS D 5704-2 : 1998

Automotive Parts —
Windshield Washer Systems —
Test Methods

ICS 43.040.60

Descriptors : road vehicles, road vehicle components, windscreens, windscreen washers, testing

Reference number : JIS D 5704-2 : 1998 (E)

D 5704-2 : 1998

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently, **JIS D 5704 : 1983** has been withdrawn and replaced with **JIS D 5704-1** and **JIS D 5704-2**.

In establishment of these Standards, for the purpose of conformity to the International Standards, those for specifications of windshield washer as the Part 1 and for the test methods conforming to **ISO 3469 Passenger cars — Windscreen washing systems — Test methods** as the Part 2 has been prepared.

JIS D 5704 consists of the following two parts.

JIS D 5704-1 *Automotive parts — Windshield washer systems — Requirement*

JIS D 5704-2 *Automotive parts — Windshield washer systems — Test methods*

While this **JIS D 5704-2** specifies the methods for testing washers as in case that these are individual products for automobile parts, for the performance and test methods for windshield washers being installen on automoles, the technical regulation of the Road Traffic Vehicle Law is Applied.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Automotive parts—Windshield washer systems— Test methods

Introduction This standard is the Japanese Industrial Standard prepared based on the second edition of ISO 3469, *Passenger cars—Windscreen washing systems—Test methods* published in 1989 without modifying the technical content, but the items not specified in the corresponding International Standard complementarily are provided as a part of Japanese International Standard. Besides, while the corresponding International Standard is intended for windshield washing systems of passenger car and also specifies the actual car test methods for those combining with wiper system (Washability test), this JIS D 5704-2 specifies a scope of test methods for washers as the individual products for automobile parts.

In this Standard, the parts underlined with dots are complementary particulars not specified in the original International Standard.

1 Scope This Japanese Industrial Standard specifies the methods for testing windshield washing systems used for front glazed surface of automobiles (hereafter referred to as the “washer”) as the individual products.

This may be applied to tests on rear-window washers and the like.

Remarks : The following International Standard corresponds to this Standard

ISO 3469 *Passenger cars — Windscreen washing systems — Test methods*

2 Normative reference The following standards contain provisions which through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS D 5704-1 *Automotive parts — Windshield washer systems — Requirements*

JIS D 0203 *Method of moisture, rain and spray test for automobile parts*

3 Definitions For the purpose of this Standard, the definitions in clause 3. of JIS D 5704-1 apply.

4 Test method

4.1 Test conditions

- Test temperature The laboratory ambient condition shall, unless particularly specified, be at an ordinary temperature and humidity [$20^{\circ}\text{C}\pm 15^{\circ}\text{C}$, $(65\pm 20)\%$].
- Test voltage Unless particularly specified, to be as given in Table 1.

Table 1 Test voltage

Unit : V

Nominal voltage	12	24
Normal operating test voltage	13.5 ± 0.3	27.0 ± 0.6
Durability test voltage	14.0 ± 0.5	28.0 ± 1.0

Remarks : The test voltage means the voltage at the pump terminal.



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