

# INTERNATIONAL STANDARD

**ISO**  
**3469**

Second edition  
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## **Passenger cars — Windscreen washing systems — Test methods**

*Voitures particulières — Dispositif de lave-glace du pare-brise —  
Méthodes d'essai*



Reference number  
ISO 3469:1989(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3469 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

This second edition cancels and replaces the first edition (ISO 3469:1975), of which it constitutes a technical revision and expansion.

Annexes A and B and C form an integral part of this International Standard. Annex D is for information only.

## Introduction

This International Standard is one of a series of four dealing with the testing of defrosting (ISO 3468), washing (ISO 3469), demisting (ISO 3470) and wiping (ISO 9619) for the windscreen of passenger cars. (See annex D.)

The testing of demisting, defrosting, and washing and wiping systems and equipment for the rear-windows of passenger cars is similarly dealt with in ISO 5897, ISO 5898 and ISO 6255 respectively.

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# Passenger cars — Windscreen washing systems — Test methods

## 1 Scope

This International Standard specifies test methods for passenger cars (term 3.1.1 in ISO 3833:1977) windscreen washing systems, when these are fitted.

It is not necessary for the tests to be repeated on types of power-driven vehicles which do not differ from one another in respect to the following essential features which affect washing performance:

- a) shape, size and surface characteristics of the windscreen;
- b) characteristics of each system designated by the vehicle manufacturer as contributing to windscreen washing.

This International Standard does not specify reference areas or levels of performance.

Annex C to this International Standard specifies a method of applying the test mixture to the glazed surface and determining the amount of dry deposited mixture.

**NOTE 1** It may be possible to carry out tests of a similar nature on front windscreens and rear-windows simultaneously.

## 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3833:1977, *Road vehicles — Types — Terms and definitions*.

## 3 Definitions

For the purposes of this International Standard, the following definitions apply.

**3.1 commercial additives:** Products which are compatible with the washing and wiping systems and which may be added to lower the washer solution freezing point and/or assist in cleansing, and/or increase the wetting capacity of the washer solution.

**3.2 control:** Device or accessory for starting and stopping the windscreen washer system. Starting and stopping may be coordinated with the operation of the windscreen wiper or be totally independent of it.

**3.3 functioning of a washing system:** Ability of a washing system to direct washer solution onto the target area of the outer glazed surface without leakage or disconnection of a washer pipe when the system is operated in accordance with the vehicle manufacturer's instructions.

**3.4 low temperature washer solution:** Solution consisting of 50 % ethyl alcohol and 50 % water. (See 3.16.)

**3.5 nozzle:** Device for directing washer solution to the outer glazed surface.

**3.6 pump:** Device for transferring washer solution from the reservoir through the washing system to the outer glazed surface.

**3.7 windscreen washing system:** Device for storing washer solution and applying it to the windscreen outer glazed surface together with the necessary controls.