

Tyres and wheels —

Part 2: Wheels and rims —

Section 5c: Specification for road wheels manufactured wholly or partly of cast light alloy for passenger cars

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee AUE/4, Tyres and wheels for road vehicles, upon which the following bodies were represented:

- Agricultural Engineers' Association
- Automobile Association
- British Industrial Truck Association
- British Pressure Gauge Manufacturers' Association
- British Rubber Manufacturers' Association
- Confederation of Passenger Transport UK
- Department of Transport
- Freight Transport Association
- Institute of Road Transport Engineers (Inc)
- Motor Cycle Industry's Association of Great Britain Ltd.
- Motor Industry Research Association
- National Tyre Distributors' Association
- Retread Manufacturers' Association
- Road Haulage Association Ltd.
- Society of Motor Manufacturers and Traders Ltd.

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Foreword

This Section of BS AU 50 has been prepared by Technical Committee AUE/4. It supersedes BS AU 50-2.5:1976, which is withdrawn.

The increased performance of passenger cars led in the 1970s to the use for the road wheels of light alloys, generally of aluminium or magnesium, which offer a favourable strength to weight ratio. The first edition of BS AU 50-2.5 was published in 1976 to ensure that the quality of design and production was adequately controlled.

This new edition incorporates Amendment 1 and Amendment 2 to BS AU 50-2.5:1976, and introduces technical changes as follows:

- in **E.1** a maximum length of moment arm is specified;
- in **E.3** the value for μ and the expression for R have been changed;
- in **G.3** an additional option for the tyre has been allowed for original equipment wheels.

References to other standards have also been reviewed and, where possible, are now undated. This new edition does not, however, constitute a full revision of the standard.

Tyre, wheel, rim and valve requirements are given in the following Parts and Sections of BS AU 50:

- *Part 1: Tyres;*
- *Section 0: General;*
- *Section 1: Car tyres;*
- *Section 2: Commercial vehicle tyres;*
- *Section 3: Off-the-road tyres;*
- *Section 4: Agricultural tractor and machine tyres;*
- *Section 5: Industrial vehicle tyres;*
- *Section 6: Motorcycle tyres;*
- *Section 7: Moped tyres;*
- *Section 8: Code of practice for the storage of tyres, inner tubes and flaps;*
- *Part 2: Wheels and rims;*
- *Section 0: General (including terms and definitions, and construction and workmanship);*
- *Section 1: (Withdrawn);*
- *Section 2: Specification for dimensions of wheel naves and hub centres for commercial vehicles;*
- *Section 3: Specification for road-wheel nuts, studs and bolts for commercial vehicles;*
- *Section 5: Specification for road wheels manufactured wholly or partly of cast light alloy for passenger cars;*
- *Section 6: Specification for road wheels manufactured wholly or partly of light alloy for mopeds and motor cycles;*
- *Section 7: Code of practice for the selection and care of tyres and wheels for commercial vehicles;*
- *Section 8: Code of practice for the selection and care of wheels for passenger cars (including caravans and light trailers);*
- *Part 3: Valves;*
- *Section 1: Specification for valve dimensions;*
- *Section 2: Tyre valve threads 5V1, 5V2, 6V1 and 8V1;*
- *Section 3: Tyre valve threads 9V1, 10V2, 12V1 and 13V1;*

- *Section 4: Tyre valve threads 8V2, 10V1, 11V1, 13V2, 15V1, 16V1, 17V1, 17V2, 17V3, 19V1 and 20V1;*
- *Section 5: Dimensions for ISO core chamber No. 1 for tyre inflation valves;*
- *Section 6: Dimensions for ISO core chamber No. 2 for tyre inflation valves;*
- *Section 7: Code of practice for the selection and care of tyre inflation valves for passenger cars (including caravans and light trailers);*
- *Section 8: Code of practice for the selection and care of tyre inflation valves for commercial vehicles;*
- *Part 4: Rim profiles and dimensions;*
- *Section 1: Car rims;*
- *Section 2: Commercial vehicle rims;*
- *Section 3: Off-the-road rims;*
- *Section 4: Agricultural tractor and machine rims;*
- *Section 5: Industrial vehicle rims;*
- *Section 6: Motorcycle rims;*
- *Section 7: Moped rims.*

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 12, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

