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NEW PNEUMATIC HIGHWAY TYRES OTHER THAN PASSENGER CAR TYRES

[Title allocated by Defence Cataloguing Authority:
TYRE, PNEUMATIC (Highway, other than Passenger
Cars NSC 2610]



STANDARDS ASSOCIATION OF AUSTRALIA
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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Automobile Association
Australian Federation of Consumer Organizations
Australian Institute of Petroleum
Australia Post
Australian Road Transport Federation
Australian Tyre Manufacturers Association
Confederation of Australian Motor Sport
Department of Defence
Department of Motor Transport, New South Wales
Department of Transport
Federal Chamber of Automotive Industries
National Association of Australian State Road Authorities
National Roads & Motorists Association (N.S.W.)
Railways of Australian Committee
Telecom Australia
Tyre & Rim Association of Australia

This standard, prepared by Committee AU/16, Passenger Car Tyres, was approved on behalf of the Council of the Standards Association of Australia on 29 November 1978, and was published on 1 February 1979.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

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AUSTRALIAN STANDARD SPECIFICATION

**NEW PNEUMATIC HIGHWAY
TYRES
OTHER THAN PASSENGER CAR TYRES**

AS 2230—1979

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PREFACE

This standard was prepared by the Association's Committee on Passenger Car Tyres at the request of the Defence Standardization Committee. The SAA committee was enlarged to include representatives of interests associated with tyres for commercial vehicles.

This standard covers tyres for multi-purpose passenger vehicles, trucks, buses, trailers and motor cycles.

It is based on U.S. Federal Motor Vehicle Safety Standard No 119, New Pneumatic Tires for Vehicles other than Passenger Cars, and acknowledgement is made of the assistance obtained therefrom.

This standard may require reference to the following Australian standard:

AS D31 New Pneumatic Passenger Car Tyres

It should be noted that the nominal size dimensions in this standard are given in imperial units with the 'soft' metric conversions in parentheses.

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STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard Specification
for**

NEW PNEUMATIC HIGHWAY TYRES OTHER THAN PASSENGER CAR TYRES

1 SCOPE. This standard establishes performance and marking requirements for tyres other than passenger car tyres for use on multi-purpose passenger vehicles, trucks, omnibuses, heavy trailers and semi-trailers, and motor cycles on highways.

2 DEFINITIONS. For the purpose of this standard the definitions given in AS D31 and the following definitions apply:

2.1 Multi-purpose passenger car—a motor vehicle constructed principally for the conveyance of persons, and which has either a truck-type chassis or special features for off-road operation, and—

- (a) has a gross vehicle mass not exceeding 4.5 t;
- (b) has more than one row of seats; and
- (c) the maximum number of seating positions is not more than eight and the total mass of occupants calculated on the basis of 68 kg per seating position is not less than 50 percent of the difference between the gross vehicle mass and the unladen mass.

2.2 Omnibus—a motor vehicle equipped to seat more than eight adult persons (including the driver).

2.3 Light truck tyre—a tyre designated by its manufacturer as being primarily intended for use on lightweight trucks or multi-purpose passenger cars.

NOTE: The manufacturer may mark the tyres with 'LT' or 'light truck' or 'C'.

2.4 Model rim assembly—a test device which—

- (a) includes a rim conforming to the published dimensions of a commercially available rim;
- (b) includes an air valve assembly when used for testing tubeless tyres or an innertube and flap (as required) when used for testing tube-type tyres; and
- (c) undergoes no permanent rim deformation and allows no loss of air through that portion which comprises the tyre-rim pressure chamber when a tyre is properly mounted on the assembly and subjected to the requirements of this specification.

3 TYRE AND RIM MATCHING INFORMATION. Each manufacturer of tyres shall ensure that a listing of rims that may be used with each type of tyre which he produces is provided to the public in one of the following forms:

- (a) Listed by manufacturer name or brand name in a document furnished to dealers of the manufacturer's tyres, or to any person upon request.
- (b) Contained in publications current at the date of manufacture of the tyre or any later date, of at least one of the following organizations

The Tyre and Rim Association of Australia
The Tire and Rim Association, Inc. (U.S.A.)

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12 The European Tyre and Rim Technical Organization

The Japanese Standards Association
Deutsches Institut für Normung

The Society of Motor Manufacturers and Traders Limited

British Standards Institution

Scandinavian Tyre and Rim Organization

For the purposes of this clause, each rim listing shall include dimensional specifications or a diagram of the rim, except that a listing compiled in accordance with paragraph (a) of this clause need not include dimensional specifications or a diagram of a rim if the rim's dimensional specifications and diagram are contained in each listing published in accordance with paragraph (b).

Information contained in a publication listed in paragraph (b) which includes general categories of tyres and rims by size designation, type of construction, and/or intended use, shall be considered to be manufacturer's information pursuant to this clause for the listed tyres, unless the publication itself or specific information provided according to paragraph (a) indicates otherwise.

4 MAXIMUM LOAD RATING. If the maximum load rating for a particular tyre size is shown in one or more of the publications referred to in Clause 3, each tyre of that size designation shall have a maximum load rating that is not less than the published maximum load rating, or if there are differing published ratings for the same tyre designation, not less than the lowest published maximum load rating for the size designation.

5 REQUIREMENTS.

5.1 General. Each tyre shall be capable of meeting any of the applicable requirements set out in Clauses 5.2 to 5.4 when mounted on a model rim assembly corresponding to any rim designated by the tyre manufacturer for use with the tyre in accordance with Clause 3, provided that the high speed endurance test (see Clause 5.4) shall apply only to motor cycle tyres and to non-speed-restricted tyres of 14.5 in (370 mm) nominal rim diameter or less marked 2, 4, 6 or 8 ply rating (load range A, B, C or D) (see Table 1).

A particular tyre need not meet further requirements after having been subjected to and having met any one of the above tests.

Prior to testing the tyre shall exhibit no visual evidence of tread, sidewall, ply, cord, innerliner or bead separation, chunking, broken cord, cracking, or open splices.