

---

# MALAYSIAN STANDARD

---

MS 148 : PART 1 : 1973 (Previously numbered as MS 6.5 : 1973)  
ICS : 83.160.10

---

**SPECIFICATION FOR  
TYRE AND WHEEL DATA  
PART 1 : PNEUMATIC RUBBER TYRES**



STANDARDS & INDUSTRIAL RESEARCH INSTITUTE OF MALAYSIA

© Copyright



**SPECIFICATION FOR  
TYRE AND WHEEL DATA  
PART 1: PNEUMATIC RUBBER TYRES**

**MS 6.5:1973**

MS 6.5:1973

© Copyright

**STANDARDS INSTITUTION OF MALAYSIA**

P O BOX 544, KUALA LUMPUR.

Telegrams: SIMSEC KUALA LUMPUR.

## MS 6.5 : 1973

This Malaysian Standard, which had been approved by the Mechanical Engineering Industry Standards Committee and endorsed by the Standards Council, was published under the authority of the Standards Council in October, 1973.

The Standards Institution of Malaysia wishes to draw attention to the fact that this Malaysian Standard does not purport to include all the necessary provisions of a contract.

The Malaysian Standards are subject to periodical review to keep abreast of progress in the industries concerned. Suggestions for improvements will be recorded and in due course brought to the notice of the Committee charged with the revision of the Standards to which they refer.

The following SIM references relate to the work on this Standard:

Committee Reference: SIM/TC2/(ISC6)/001

Draft for Comment: D5(ISC6)

## CONTENTS

	Page
Committee Representation ... ..	5
Foreword ... ..	6

## SPECIFICATION

1	Scope ... ..	7
2	Terms and Definitions ... ..	7
3	Identification of Tyre Size ... ..	11
4	Physical Dimensions ... ..	11
⑤	Rim Identification ... ..	12
6	Inflation Pressure ... ..	12
7	Tyre Markings ... ..	12
8	Car Tyre Types, Size and Speed Markings, and Speed Limits ... ..	13
Table 1	Test Inflation Pressures ... ..	11
Table 2	'70' Series Tyres ... Radially-Ply Test Rims and Section Widths ... ..	17
Table 3	Super Balloon Tyres — Diagonal (Cross)-Ply Test Rims, Dimensions, Minimum Size Factors, and Load Ratings ... ..	18
Table 4	Low Section Tyres — Diagonal (Cross)-Ply Test Rims, Dimensions, Minimum Size Factors, and Load Ratings ... ..	19

**MS 6.5 : 1973**

Table 5	Super Low Section Tyres — Diagonal (Cross)-Ply Test Rims, Dimensions, Minimum Size Factors, and Load Ratings ... ..	20
Table 6	Millimetric Tyres — Radial-Ply Test Rims, Dimensions, Minimum Size Factors, and Load Ratings ... ..	21
Table 7	'70' Series Tyres — Radial-Ply Test Rims, Dimensions, Minimum Size Factors, and Load Ratings ... ..	22
Table 8	Rim Fitments Super Balloon Tyres — Diagonal (Cross)-Ply ... ..	23
Table 9	Rim Fitments Low Section Tyres — Diagonal (Cross)-Ply ... ..	24
Table 10	Rim Fitments Super Low Section Tyres — Diagonal (Cross)-Ply ... ..	25
Table 11	Rim Fitments Millimetric Tyres — Radial Ply	26
Table 12	Rim Fitments '70' Series Tyres — Radial Ply	27
Figure 1	Pneumatic Tyre Section ... ..	16
Figure 2	Pneumatic Tyre Bead ... ..	16
Figure 3	Pneumatic Tyre Section ... ..	16

## Committee Representation

The Mechanical Engineering Industry Standards Committee under whose supervision this Malaysian Standard was prepared, comprises representatives from the following Government Ministries, trade, commerce and manufacturer association and scientific and professional bodies.

Association of Consulting Engineers (Malaysia)  
Drainage & Irrigation Department  
Federation of Malaysian Manufacturers  
Institution of Engineers (Malaysia)  
Malaysian Motor Vehicle Assemblers Association  
Malaysian Scientific Association  
Ministry of Trade and Industry  
Ministry of Defence  
Ministry of Education (Technical College)  
Ministry of Health (Medical Services)  
Ministry of Labour and Manpower (Machinery Department)  
Ministry of Primary Industries (Mines Department)  
Ministry of Communications (Road Transport Department)  
Ministry of Communications (Civil Aviation Department)  
Ministry of Works and Power (Public Works Department)  
Pan Malayan Road Transport Operators' Association  
Railway Administration (Mechanical Engineering Department)  
National Chambers of Commerce  
University of Malaya

The Technical Committee on Rubber Tyres which prepared this Malaysian Standard consists of representatives from the following member organisations:

Automobile Association of Malaysia  
Consumers' Association  
Federation of Malaysian Manufacturers  
Institute of Engineers (Malaysia)  
Malayan Rubber Goods Manufacturers Association  
Malaysian Motor Sports Club  
Malaysian Motor Traders' Association  
Malaysian Motor Vehicle Assemblers Association  
Malaysian Scientific Association  
Malaysian Tyre Retreaders Association  
Ministry of Commerce  
Ministry of Transport (Road Transport Department)  
Ministry of Works, Post & Telecommunications (Public Works Department)  
Rubber Research Institute of Malaya  
National Chambers of Commerce

## FOREWORD

This Malaysian Standard, which has been prepared by the Technical Committee on Rubber Tyres under the authority of the Mechanical Engineering Industry Standards Committee, is based on Part 1 of BS AU 50 : 1969.

It is to be noted that all dimensions, pressures and loadings are given in British units. This has been done as an interim measure pending the adoption of internationally agreed units.

Certain components specified in this Standard may be subject to patents. Users of the Standard should satisfy themselves that they are not infringing any such patents in manufacturing to this Standard.

Part 1 of the Standard is concerned with Pneumatic Rubber Tyres. Other parts are:—

Part 2 : Wheels and Rims

Part 3 : Valves

Note 1: If it is required to convert the figures in this Standard from British units into metric units it is recommended that the conversion factors and the tables contained in BS 350, "Conversion Factors and Tables", be used. Attention is also drawn to BS 2856, "Precise Conversion of Inch and Metric Sizes on Engineering Drawings".