

**APPLICATION FOR APPROVAL EXTENSION OF A TYPE OF PNEUMATIC TYRE ACCORDING TO UN
REGULATION No. 54, 00 SERIES OF AMENDMENTS**

- | | | | |
|--------|--|---|--|
| 1. | Manufacturer's name or trade mark ⁽²⁾ | : | AEOLUS; |
| 2. | Tyre type designation by the manufacturer ⁽²⁾ | : | Neo Allroads T; <u>Neo Allroads T2</u> ; ADR78; <u>Neo Allroads D</u> ; |
| 3. | Manufacturer's name and address | : | Aeolus Tyre Co., Ltd.
No.48 South Road Jiaodong
Jiaozuo 454003 Henan Province
China (PRC) |
| 4. | If applicable, name and address of manufacturer's representative | : | Not applicable |
| 5. | Summarised description, | | |
| 5.1. | Tyre size designation | : | 265/70R19.5 |
| 5.2. | Category of use | : | normal /special/snow ⁽¹⁾ |
| 5.3. | Structure | : | diagonal (bias ply) /radial ⁽¹⁾ |
| 5.4. | Speed category symbol | | |
| 5.4.1. | Nominal | : | J |
| 5.4.2. | Additional (if applicable) | : | F |
| 5.5. | Load capacity indices | | |
| 5.5.1. | corresponding to nominal speed | : | single: 143, twinned (dual): 141 |
| 5.5.2. | corresponding to additional speed | : | single: 146, twinned (dual): 146 |
| 6. | Overall dimensions(design) | : | Annex 5 / calculated ⁽¹⁾ |
| | overall section width | : | 258.3 mm(Variant I) / 257.9 mm(Variant II) |
| | outer diameter | : | 866.1 mm(Variant I) / 867.4 mm(Variant II) |
| 7. | Factor 'x' | : | 0.75 |
| 8. | Ply-rating number for diagonal (bias ply) tyres | : | 18 P.R. |
| 9. | Rims on which the tyre can be mounted | : | 7.50
8.25 |
| 10. | Measuring rim and test rim | : | See attached test report |
| 11. | Tyre class | : | C2/ C3 ⁽¹⁾ |
| 12. | State whether the tyre is | : | tubeless / tube type ⁽¹⁾ |
| 13. | Traction tyre | : | Yes / No(see the tread pattern detail in drawing) ⁽¹⁾ |
| 14. | State if special use tyre | : | Not applicable |
| | Professional Off-Road | : | Yes / No ⁽¹⁾ |
| | Tread depth / Void to fill ratio | : | Not applicable |
| 15. | Inflation pressure and index for measuring and testing | : | 850 kPa |
| 16. | Submitted for approval on (date) | : | Mar 29, 2019 |

We herewith declare that we have not applied and will not apply for approval with another Contracting Party of the ECE for the same type of product⁽¹⁾

MANUFACTURER'S STAMP



(1) Strike out what does not apply.

(2) Modified points are underlined for extension.

THE NETHERLANDS
(N E D E R L A N D)

COMMUNICATION

Concerning ⁽¹⁾:

- ~~approval granted~~
- approval extended
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of pneumatic tyre for motor vehicles pursuant to Regulation number 54.

Approval number: E4*54R00/23*41675*01

1. Manufacturer's name and address : Aeolus Tyre Co., Ltd
No.48 South Road Jiaodong
Jiaozuo 454003 Henan Province
China (PRC)
2. Tyre type designation⁽²⁾
 - 2.1. Brand-name(s) or trade mark(s) : AEOLUS;
 - 2.2. Trade description(s)/ Commercial name(s) : Neo Allroads T; Neo Allroads T2; ADR78; Neo Allroads D;
3. If applicable, name and address of the manufacturer's representative : Not applicable
4. Summarized description
 - 4.1. Size of tyre : 265/70R19.5
 - 4.2. Category of use : ~~normal~~/snow/~~special~~ ⁽¹⁾
 - 4.3. Structure : ~~diagonal(bias ply)~~/radial ⁽¹⁾

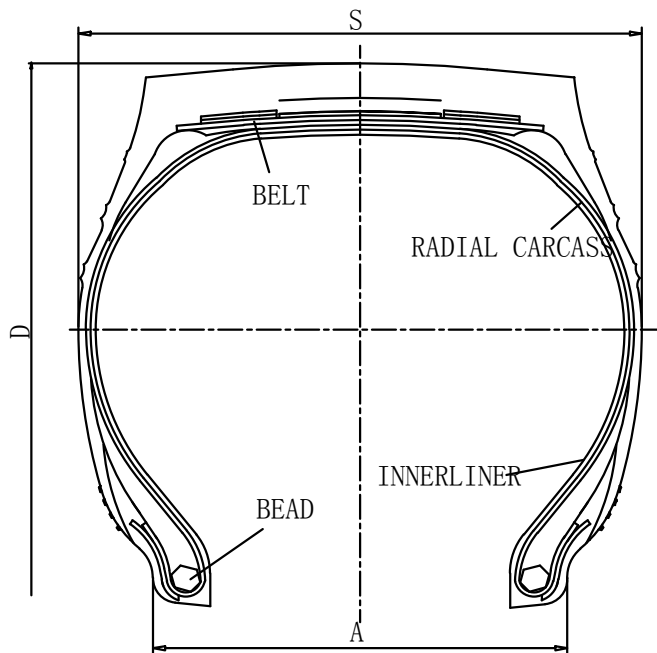
Approval number: E4*54R00/23*41675*01

- 4.4. Tyre class : ~~E2~~/C3⁽¹⁾
- 4.5. Speed category symbol
- 4.5.1. Nominal : J
- 4.5.2. additional (if applicable) : F
- 4.6. Load-capacity indices:
- 4.6.1. Corresponding to nominal speed:
- single : 143
 - twinned (dual) : 141
- 4.6.2. Corresponding to additional speed:
- single : 146
 - twinned (dual) : 146
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Am Grauen Stein
D-51105 Köln (Poll)
6. Date of report issued by that service : May 29, 2018
April 4, 2019
7. Number of report issued by that service : 88-R54-218/18-00
88-R54-198/19-00
8. Reason(s) of extension (if applicable) : Addition of new tread patterns.
Update the version of regulation.
9. Any remarks : ---
10. Place : Zoetermeer
11. Date : 17 april 2019
12. Signature :
13. Annexed to this communication is a list of documents in the approval file deposited at the administrative service having delivered the approval and which can be obtained upon request.
- Application form relating to UN approval for a pneumatic tyre pursuant to Regulation number 54.
 - The drawing of the tyre's sidewalls, tread and dimensioned cross-section.
 - The test report as mentioned in item 7.


P. van Tol

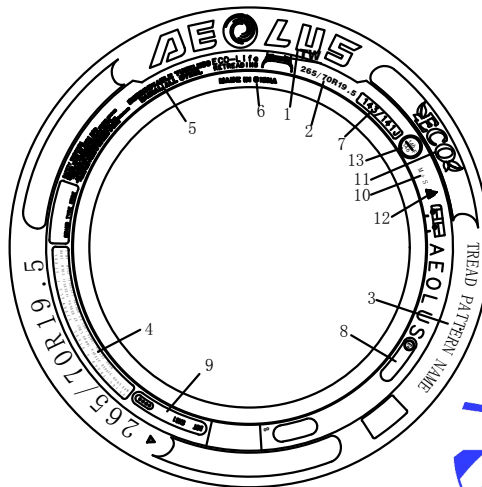
(1) Strike out what does not apply.

(2) A list of Brand name(s)/trademark(s) or Trade description(s)/ Commercial name(s) may be annexed to this communication

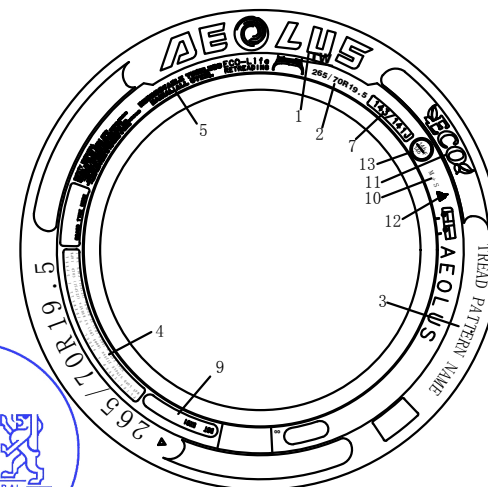


TREAD PATTERN

REFER TO ATTACHMENT NO.008R-2019



LOWER MOULD

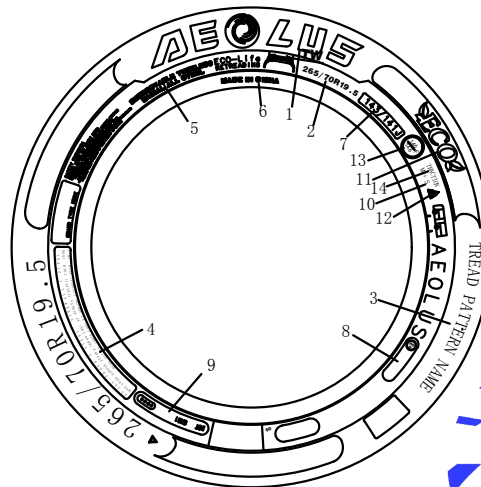
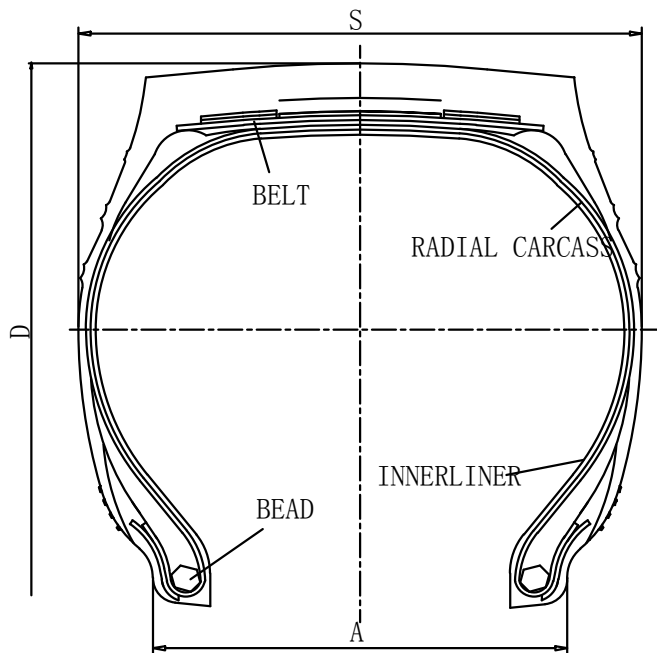


UPPER MOULD

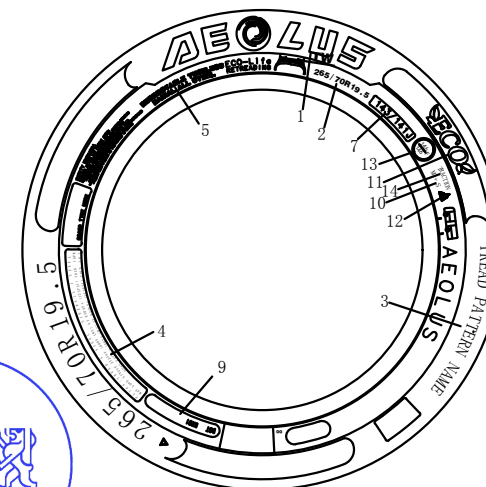
1	REFER TO ATTACHMENT NO.008R-2019						
2	265/70R19.5						
3	REFER TO ATTACHMENT NO.008R-2019						
4	PLIES:TREAD 4 STEEL SIDEWALL 1 STEEL MAX LOAD SINGLE 2725kg (6005 LBS) AT 850kPa (123PSI) COLD 18PR DUAL 2575kg (5675 LBS) AT 850kPa (123PSI) COLD LR.J						
5	REGROOVABLE TUBELESS RADIAL ALL STEEL						
6	MADE IN CHINA						
7	143/141J						
8	E4 0041675						
9	DOT 5X81 **** (****—DATE CODE)						
10	M + S						
11	ECO	12	ALPINE	13	146/146F		
265/70R19.5		143/141 146/146	J F	TL	867	262	190.5 SEE TREAD PATTERNS
TIRE SIZE		LOAD INDEX	SPEED SYMBOL	TYPE	D (mm)	S (mm)	A (mm) SKID DEPTH (mm)

DRAWN BY ZHAO FEIYAN CHECKED BY FAN JUNWEI APPROVED BY LI ZHAO

AEOLUS TYRE CO., LTD.



LOWER MOULD



UPPER MOULD

TREAD PATTERN

REFER TO ATTACHMENT NO.008R-2019

1	REFER TO ATTACHMENT NO.008R-2019						
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5	REGROOVABLE TUBELESS RADIAL ALL STEEL						
6	MADE IN CHINA						
7	143/141J						
8	E4 0041675						
9	DOT 5X81 **** (****—DATE CODE)						
10	M + S						
11	ECO	12	ALPINE	13	146/146F	14	TRACTION
	265/70R19.5	143/141 146/146	J F	TL	867	262	190.5 SEE TREAD PATTERNS
	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	D (mm)	S (mm)	A (mm) SKID DEPTH (mm)

DRAWN BY ZHAO FEIYAN CHECKED BY FAN JUNWEI APPROVED BY LI ZHAO

AEOLUS TYRE CO., LTD.

ATTACHMENT NO. 008R-2019

TIRE SIZE 265/70R19.5 143/141J(146/146F)

E4 0041675

BRANDNAME

AEOLUS

TREAD PATTERN NAME

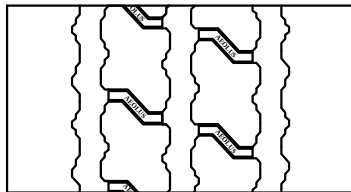
Neo Allroads T

Neo Allroads T2

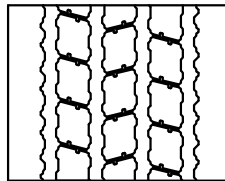
ADR78;Neo Allroads D

TREAD PATTERNS

M+S;ALPINE

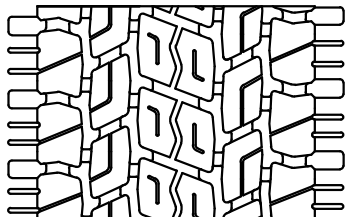


Neo Allroads T SKID DEPTH: 13mm



Neo Allroads T2 SKID DEPTH:13mm

M+S;TRACTION;ALPINE



ADR78;Neo Allroads D SKID DEPTH: 16.5mm



Type : 265/70R19.5
Manufacturer : Aeolus Tyre Co., Ltd

TEST REPORT

according to UN-Regulation

Uniform provisions concerning the approval of pneumatic tyres
for commercial vehicles and their trailers

UN Regulation No.54

as last amended by

Amend. 00, Suppl. 23

Previously granted

UN approval : E4*54R00/22*41675*00

Structure of the Test Report

Item No.

0. General information
 1. Tested ~~vehicle(s)~~ / object(s)
 2. Test record
 3. List of appendices
 4. Statement of conformity
-



The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced partially with the written permission of the Testing Laboratory only.

Type : 265/70R19.5
Manufacturer : Aeolus Tyre Co., Ltd

0. General Information

- 0.1. Make (trade name of the manufacturer) : Aeolus Tyre Co., Ltd
- 0.2. Type : 265/70R19.5
- 0.3. Category of vehicle : Not applicable
- 0.4. Name and address of the manufacturer : Aeolus Tyre Co., Ltd
No.48 South Road Jiaodong
Jiaozuo 454003 Henan Province
China (PRC)
- 0.5. No. of the information folder
-Date of issue : May 14, 2018
-Date of last change : March 29, 2019

1. Tested ~~vehicle(s)~~ / object(s)

- 1.1. Description
- 1.1.1. ~~Vehicle~~ / object
- Commercial description : Not applicable
- Type(s) ~~Variant(s)~~ / ~~version(s)~~ : 265/70R19.5
- Identification number : ZB180304541(Test I)
ZB180304545(Test II)
- 1.1.2. Condition of ~~vehicle(s)~~ / Object(s) : New / ~~used~~ / ~~tested~~
- 1.2. Worst case selection : The determination of the worst case was done according to internal procedures of the Technical Service (QMA 1.301.005, section 6.2.2.2.).
- 1.3. Remarks : Not applicable



Type : 265/70R19.5
 Manufacturer : Aeolus Tyre Co., Ltd

2. Test record

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements
- 2.1.1. Specifications for the test site : Not applicable
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results : See Appendix 1
- Numbering according to Paragraph 6. and 7. of the UN-R54
- 2.2.1. Test results referring to measurements : Pass / ~~Fail~~
- 2.2.2. Attributive tests : Not applicable
- 2.2.3. Alternative test provisions : Not applicable
- Remarks concerning extension : ~~The type has been tested according to the modification(s) mentioned in appendix 0.~~
The new parts meet the requirements of the regulation.
An actual practical test of the type was not necessary.
The results of the previous test(s) are still valid.
- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
- Test site : Aeolus Tyre Co., Ltd
 No.48 South Road Jiaodong
 Jiaozuo 454003 Henan Province
 China (PRC)
- Test date : March 28-29, 2018 (Test I)
 March 23-26, 2018 (Test II)
- 2.4. Remarks : Not applicable



Type : 265/70R19.5
Manufacturer : Aeolus Tyre Co., Ltd

3. List of Appendices

Appendix 0 : List of modifications
Appendix 1 : Test minutes

4. Statement of conformity

The in point 0.5. mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see point 1.2).

The mentioned test results refer to the vehicle(s)/object(s) described under point 1.1 of this report.

Engineering centre Shanghai / April 4, 2019
GX

Ryan Gan.

Ryan Gan
Expert Technical Service



Type : 265/70R19.5
Manufacturer : Aeolus Tyre Co., Ltd

List of modifications

Appendix 0

Correction of : ---

Modification of : - Updating the version of regulation.

Addition of : - New tread patterns.

Deletion of : ---



Type : 265/70R19.5
 Manufacturer : Aeolus Tyre Co., Ltd

Test minutes

Appendix 1

1. Test data

1.1 Object markings

- 1.1.1 Trade name or mark : AEOLUS
- 1.1.2 Tyre type designation : Neo Allroads T
- 1.1.3 Plies of Tread / Sidewall : 4 STEEL / 1 STEEL
- 1.1.4 Tyre size designation : 265/70R19.5
- 1.1.5 Category of use : snow 
 Indication of category of use : M+S
- 1.1.6 Structure : Radial
 Indication / symbol of structure : Word "RADIAL", letter "R" in front of rim diameter marking
- 1.1.7 Speed category : Nominal: J Supplementary: F
- 1.1.8 Load-Capacity Indices(L.I.)
 corresponding to nominal speed : Single: 143 Twinned: 141
 corresponding to supplementary speed : Single: 146 Twinned: 146
- 1.1.9 Index of inflation pressure for testing : 850 kPa
- 1.1.10 Ply-rating number : 18 P.R.
- 1.1.11 Word in case of without inner tube : TUBELESS
- 1.1.12 Word in case of tyre can be regrooved : REGROOVABLE
- 1.1.13 Inscription in case of Free Rolling Tyre or Traction Tyre : Not applicable
- 1.1.14 Date of manufacture : 1018

1.2. Dimension measurement according to Annex 6

- 1.2.1 Measuring rim : 7.50 x 19.5
- 1.2.2 Inflation pressure after mounting on measuring rim : 850 kPa
- 1.2.3 Inflation pressure adjusted before conditioning : 850 kPa
- 1.2.4 Conditioning of tyre : More than 24 hours
- 1.2.5 Inflation pressure readjusted after conditioning : 850 kPa
- 1.2.6 Overall width at six equally spaced points
 1. 258.0 mm 2. 258.3 mm 3. 258.0 mm
 4. 258.1 mm 5. 258.1 mm 6. 258.1 mm
 Max.: 258.3 mm



Type : 265/70R19.5
Manufacturer : Aeolus Tyre Co., Ltd

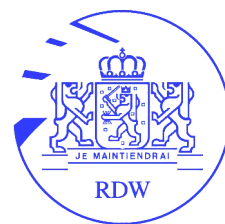
- 1.2.7 Circumference : 2721 mm
1.2.8 Outer diameter : 866.1 mm
1.2.9 Tread depth / void to fill ratio in case of special use tyre : Not applicable

1.3. Load/speed performance test according to Annex 7

- 1.3.1 Test machine : TJR-4-TB(Y)
1.3.2 Diameter of test drum : 1.707 m
1.3.3 Test rim : 7.50 x 19.5
1.3.4 Inflation pressure adjusted before conditioning : 850 kPa
1.3.5 Conditioning of tyre : More than 3 hours
1.3.6 Test-room temperature : 25 °C
1.3.7 Inflation pressure readjusted after conditioning : 850 kPa
1.3.8 Circumference after conditioning, before testing : 2721 mm
1.3.9 Outer diameter after conditioning, before testing : 866.1 mm
1.3.10 100% load corresponding to L.I.(single) : 2725kg

Step	Step duration [h]	Total duration [h]	Actual speed [km.h ⁻¹]	Test Load	
				[%]	[kg]
1.	7	7	48	66	1799
2.	16	23	48	84	2289
3.	24	47	48	101	2752

- 1.3.11 Conditioning after testing : More than 6 hours
1.3.12 Circumference after conditioning, after testing : 2735 mm
1.3.13 Outer diameter after conditioning, after testing : 870.6 mm
1.3.14 Difference outer diameter before and after testing (max. 3.5 %) : 4.5 mm
: 0.52 %
1.3.15 Inspection after test : The tyre does not exhibit tread separation, ply separation, cord separation, chunking or broken cords.
2. Remarks : ---



Type : 265/70R19.5
 Manufacturer : Aeolus Tyre Co., Ltd

3. Test data

3.1 Object markings

- 3.1.1 Trade name or mark : AEOLUS
- 3.1.2 Tyre type designation : Neo Allroads T
- 3.1.3 Plies of Tread / Sidewall : 4 STEEL / 1 STEEL
- 3.1.4 Tyre size designation : 265/70R19.5
- 3.1.5 Category of use : snow
 Indication of category of use : M+S 
- 3.1.6 Structure : Radial
 Indication / symbol of structure : Word "RADIAL", letter "R" in front of rim diameter marking
- 3.1.7 Speed category : Nominal: J Supplementary: F
- 3.1.8 Load-Capacity Indices(L.I.)
 corresponding to nominal speed : Single: 143 Twinned: 141
 corresponding to supplementary speed : Single: 146 Twinned: 146
- 3.1.9 Index of inflation pressure for testing : 850 kPa
- 3.1.10 Ply-rating number : 18 P.R.
- 3.1.11 Word in case of without inner tube : TUBELESS
- 3.1.12 Word in case of tyre can be regrooved : REGROOVABLE
- 3.1.13 Inscription in case of Free Rolling Tyre or Traction Tyre : Not applicable
- 3.1.14 Date of manufacture : 1018

3.2. Dimension measurement according to Annex 6

- 3.2.1 Measuring rim : 7.50 x 19.5
- 3.2.2 Inflation pressure after mounting on measuring rim : 850 kPa
- 3.2.3 Inflation pressure adjusted before conditioning : 850 kPa
- 3.2.4 Conditioning of tyre : More than 24 hours
- 3.2.5 Inflation pressure readjusted after conditioning : 850 kPa
- 3.2.6 Overall width at six equally spaced points
- | | | | | | |
|----------------|----------|----|----------|----|----------|
| 1. | 257.6 mm | 2. | 257.9 mm | 3. | 257.9 mm |
| 4. | 257.7 mm | 5. | 257.7 mm | 6. | 257.6 mm |
| Max.: 257.9 mm | | | | | |



Type : 265/70R19.5
Manufacturer : Aeolus Tyre Co., Ltd

3.2.7 Circumference : 2725 mm
3.2.8 Outer diameter : 867.3 mm
3.2.9 Tread depth / void to fill ratio in case of special use tyre : Not applicable

3.3. Load/speed performance test according to Annex 7

3.3.1 Test machine : TJR-4-TB(Y)
3.3.2 Diameter of test drum : 1.707 m
3.3.3 Test rim : 7.50 x 19.5
3.3.4 Inflation pressure adjusted before conditioning : 850 kPa
3.3.5 Conditioning of tyre : More than 3 hours
3.3.6 Test-room temperature : 25 °C
3.3.7 Inflation pressure readjusted after conditioning : 850 kPa
3.3.8 Circumference after conditioning, before testing : 2725 mm
3.3.9 Outer diameter after conditioning, before testing : 867.3 mm
3.3.10 100% load corresponding to L.I.(single) : 3000 kg

Step	Step duration [h]	Total duration [h]	Actual speed [km.h ⁻¹]	Test Load [%]	[kg]
1.	7	7	32	66	1980
2.	16	23	32	84	2520
3.	24	47	32	101	3030

3.3.11 Conditioning after testing : More than 6 hours
3.3.12 Circumference after conditioning, after testing : 2740 mm
3.3.13 Outer diameter after conditioning, after testing : 872.2 mm
3.3.14 Difference outer diameter before and after testing (max. 3.5 %) : 4.8 mm
: 0.55 %
3.3.15 Inspection after test : The tyre does not exhibit tread separation, ply separation, cord separation, chunking or broken cords.

4. Remarks : ---

