

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

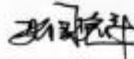
Reason of extension	:	Add new Trade mark and Add new Pattern
1. Manufacturer's name and address	:	Shandong Yongsheng Rubber Group Co., Ltd. Dawang Town , Dongying , ShanDong 257335 China (PRC)
2. Tyre type designation(2)	:	
2.1. Brand name(s)/trademark(s)	:	ROTALLA ;TRACMAX ;ROCKSTONE ;MINERVA ; NORDEXX;ZEETEX;JASTOO;FRAXION;Shin Tyco; IMPERIAL; ROAD KING; TRISTAR; EVERSINE; YONSHINE; AUTOGRIP;FINALIST;TROC MOH; DOUPRO;HOSUPER;ROCKSDARK;ROCKSHINE;SHIMO; <u>SUNTEK; GREMAX; NEUTON; AUFINE; ADERENZA;</u> <u>Tourador</u>
2.2. Trade description(s)/Commercial name(s)	:	ICE-PLUS S100 ;ICE-PLUS S110 ; NIVIUS SNOW; Z-ICE2000C; CT4000 4S vfm; <u>SETULA WRACE VS450;</u> <u>X-privilo VS450;ARGOS VS450;WINTER PRO TSV1</u>
3. If applicable, name and address of manufacturer's representative	:	not applicable
4. Summarised description,		
4.1. Tyre size designation	:	225/70R15C
4.2. Category of use	:	normal/special/snow
4.3. Structure	:	diagonal (bias ply)/radial
4.4. Tyre class	:	E1/C2/E3
4.5. Speed category symbol,		
4.5.1. nominal	:	R
4.5.2. additional (if applicable)	:	not applicable
4.6. Load-capacity indices,		
4.6.1. corresponding to nominal speed	:	single: 112, twinned (dual): 110
4.6.2. corresponding to additional speed	:	single: ---, twinned (dual): ---
5. Overall measured dimensions	:	calculated/Annex-5
overall section width	:	228(2P+2S/2P)/233(2P+2S+1N/2P)
outer diameter	:	694(2P+2S/2P)/694(2P+2S+1N/2P)
6. Factor 'x'	:	0.70
7. Ply-rating number for diagonal (bias ply) tyres	:	not applicable
8. Rims on which the tyre can be mounted	:	6 ¹ / ₂ J 6J 7J
9. Measuring rim and test rim	:	see attached test report
10. State whether the tyre is	:	tubeless / tube-type
11. Inflation pressure and index for measuring and testing	:	see attached test report
12. Submitted for approval on (date)	:	May 21, 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.



Signature :



Name: Zhang Guokui

THIS APPLICATION IS ACCOMPANIED BY:

- A drawing of the tyre's side wall, tread and dimensioned cross section.
- The test report.



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: E4-54R-0021146

Extension number: 06

1. Manufacturer's name and address : Shandong Yongsheng Rubber Group Co., Ltd.
Dawang Town, Dongying, Shandong
257335
China (PRC)
2. Tyre type designation⁽²⁾
 - 2.1. Brand-name(s) or trade mark(s) : ROTALLA; TRACMAX; ROCKSTONE;
MINERVA; NORDEXX; ZEETEX; JASTOO;
FRAXION; Shin Tyco; IMPERIAL; ROAD
KING; TRISTAR; EVERSHERE; YONSHINE;
AUTOGRIP; FINALIST; TROC MOH;
DOUPRO; HOSUPER; ROCKSDARK;
ROCKSHINE; SHIMO; SUNTEK; GREMAX;
NEUTON; AUFINE; ADERENZA; Tourador
 - 2.2. Trade description(s)/ Commercial
name(s) : ICE-PLUS S100; ICE-PLUS S110; NIVIUS
SNOW; Z-ICE2000C; CT4000 4S vfm;
SETULA WRACE VS450; X-privilo VS450;
ARGOS VS450; WINTER PRO TSV1
3. If applicable, name and address of the
manufacturer's representative : not applicable



Approval number: E4-54R-0021146

Extension number: 06

4. Summarized description
- 4.1. Size of tyre : 225/70R15C
- 4.2. Category of use : ~~normal~~/snow/~~special~~⁽¹⁾
- 4.3. Structure : ~~diagonal(bias ply)~~/radial⁽¹⁾
- 4.4. Tyre class : C2/~~C3~~⁽¹⁾
- 4.5. Speed category symbol:
- 4.5.1. Nominal : R
- 4.5.2. additional (if applicable) : ---
- 4.6. Load-capacity indices:
- 4.6.1. Corresponding to nominal speed:
- single : 112
- twinned (dual) : 110
- 4.6.2. Corresponding to additional speed:
- single : ---
- twinned (dual) : ---
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Typprüfstelle Fahrzeuge/Fahrzeugteile
Am Grauen Stein
D-51105 Köln (Poll)
6. Date of report issued by that service : July 05, 2019
7. Number of report issued by that service : 86-R54-2968/19-00
8. Reason(s) of extension (if applicable) : Addition of brand names and trade descriptions;
Addition of construction subgroups Tread plies:
2 POLYESTER + 2 STEEL + 1 NYLON,
Sidewall plies: 2 POLYESTER
9. Any remarks : ---
10. Place : Zoetermeer
11. Date : 31 July 2019
12. Signature :



RDW
T. Ploshchansky

Approval number: E4-54R-0021146

Extension number: 06

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 ECE 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.

-
- (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



Type : 225/70R15C
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

TEST REPORT

according to UN Regulation

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

UN R54

including all amendments until
Amend.00, Suppl. 23

Approval Status

UN approval : E4-54R-0021146 Ext. 05

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 : 225/70R15C
 Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

0. General Information

- 0.1. Make (trade name of the manufacturer) : Shandong Yongsheng Rubber Group Co., Ltd.
 0.2. Type : 225/70R15C
 0.3. Category of vehicle : Not applicable
 0.4. Name and address of the manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.
 Dawang Town, Dongying, Shandong
 257335
 China (PRC)
 0.5. No. of the information folder : Not applicable
 -Date of issue : ---
 -Date of last change : ---

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

- 1.1. Description
 1.1.1. ~~Vehicle~~/ object
 Commercial description : Not applicable
 Type(s) ~~/variant(s)~~ ~~/version(s)~~ : 225/70R15C
 Identification number : See Appendix 1
 1.1.2. Condition of ~~vehicle(s)~~/Object(s) : New ~~/used~~ ~~/protected~~
 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 : 225/70R15C
 Manufacturer : Shandong Yongsheng Rubber Group 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 : Shandong Yongsheng Rubber Group Co., Ltd.
 Dawang Town, Dongying, Shandong
 257335
 China (PRC)
- Test date : March 05, 2014 for sample 1
 June 27, 2019 for sample 2
- 2.4. Remarks : Not applicable



Type : 225/70R15C
Manufacturer : Shandong Yongsheng Rubber Group
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 / July 05, 2019
LC



Linda Chen
Expert Technical Service



Type : 225/70R15C
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : Brand names and trade descriptions;
Construction subgroups Tread plies: 2 POLYESTER +
2 STEEL + 1 NYLON, Sidewall plies: 2 POLYESTER

Deletion of : ---



Type : 225/70R15C
 Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.


Test minutes

Appendix 1

1. Test data


1.1 Object markings

1.1.1. Sample 1

1.1.1.1	Trade name or mark	:	ROCKSTONE	
1.1.1.2	Tyre type designation	:	ICE-PLUS S100	
1.1.1.3	Plies of Tread / Sidewall	:	2 POLYESTER + 2 STEEL / 2 POLYESTER	
1.1.1.4	Tyre size designation	:	225/70R15C	
1.1.1.5	Category of use	:	Snow	
	Indication of category of use	:	Word "M+S" and alpine symbol 	
1.1.1.6	Structure	:	Radial	
	Indication / symbol of structure	:	Word "RADIAL", letter "R" in front of rim diameter marking	
1.1.1.7	Speed category	:	Nominal: R	Supplementary: ---
1.1.1.8	Load-Capacity Indices(L.I.)			
	corresponding to nominal speed	:	Single: 112	Twinned: 110
	corresponding to supplementary speed	:	Single: ---	Twinned: ---
1.1.1.9	Index of inflation pressure for testing	:	450 Kpa	
1.1.1.10	Ply-rating number	:	---	
1.1.1.11	Word in case of without inner tube	:	TUBELESS	
1.1.1.12	Word in case of tyre can be regrooved	:	n/a	
1.1.1.13	Inscription in case of Free Rolling Tyre or Traction Tyre	:	Not applicable	
1.1.1.14	Date of manufacture	:	---	



1.1.2. Sample 2

1.1.2.1	Trade name or mark	:	TRACMAX	
1.1.2.2	Tyre type designation	:	X-privilo VS450	
1.1.2.3	Plies of Tread / Sidewall	:	<u>2 POLYESTER + 2 STEEL + 1 NYLON</u> <u>/ 2 POLYESTER</u>	
1.1.2.4	Tyre size designation	:	225/70R15C	
1.1.2.5	Category of use	:	Snow	
	Indication of category of use	:	Word "M+S" and alpine symbol 	
1.1.2.6	Structure	:	Radial	
	Indication / symbol of structure	:	Word "RADIAL", letter "R" in front of rim diameter marking	

Type : 225/70R15C
 Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

1.1.2.7	Speed category	: Nominal: R	Supplementary: ---
1.1.2.8	Load-Capacity Indices(L.I.) corresponding to nominal speed corresponding to supplementary speed	: Single: 112 : Single: ---	Twinned: 110 Twinned: ---
1.1.2.9	Index of inflation pressure for testing	: 450 Kpa	
1.1.2.10	Ply-rating number	: ---	
1.1.2.11	Word in case of without inner tube	: TUBELESS	
1.1.2.12	Word in case of tyre can be regrooved	: n/a	
1.1.2.13	Inscription in case of Free Rolling Tyre or Traction Tyre	: Not applicable	
1.1.2.14	Date of manufacture	: 2319	
1.2.	Dimension measurement according to Annex 6 for sample 1	: Refer to report No. : CT054-B0-160126 corresponding to type approval No. : E4-54R-0021146 Ext.04	
1.3.	Load/speed performance test according to Annex 7 for sample 1	: Refer to report No. : CT054-B0-160126 corresponding to type approval No. : E4-54R-0021146 Ext.04	
1.4.	Dimension measurement according to Annex 6 for sample 2		
1.4.1	Measuring rim	: 6.5J x 15	
1.4.2	Inflation pressure after mounting on measuring rim	: 4.5 bar	
1.4.3	Inflation pressure adjusted before conditioning	: 4.5 bar	
1.4.4	Conditioning of tyre	: More than 24 hours	
1.4.5	Inflation pressure readjusted after conditioning	: 4.5 bar	
1.4.6	Overall width at six equally spaced points 1. 232.3 mm 2. 232.4 mm 3. 232.5 mm 4. 232.4 mm 5. 232.5 mm 6. 232.6 mm Max.: 232.6 mm		
1.4.7	Circumference	: 2179 mm	
1.4.8	Outer diameter	: 693.6 mm	
1.4.9	Tread depth / void to fill ratio in case of special use tyre	: Not applicable	
1.5.	Load/speed performance test according to Annex 7 for sample 2		
1.5.1	Test machine	: TJR-2-PC(Y)	
1.5.2	Diameter of test drum	: 1.707 m	



Type : 225/70R15C
 Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

1.5.3	Test rim	:	6.5J x 15	
1.5.4	Inflation pressure adjusted before conditioning	:	4.5 bar	
1.5.5	Conditioning of tyre	:	More than 3 hours	
1.5.6	Test-room temperature	:	25.7-27.8 °C	
1.5.7	Inflation pressure readjusted after conditioning	:	4.5 bar	
1.5.8	Circumference after conditioning, before testing	:	2181 mm	
1.5.9	Outer diameter after conditioning, before testing	:	694.2 mm	
1.5.10	90% load corresponding to L.I.(single)	:	1008 kg	
	Step	Step-Duration [min]	Total Duration [min]	Actual speed (km/h)
	1.	10	10	0 –150
	2.	10	20	150
	3.	10	30	160
	4.	30	60	170
1.5.11	Conditioning after testing	:	More than 6 hours	
1.5.12	Circumference after conditioning, after testing	:	2189 mm	
1.5.13	Outer diameter after conditioning, after testing	:	696.8 mm	
1.5.14	Difference outer diameter before and after testing (max. 3.5 %)	:	2.6 mm 0.37 %	
1.5.15	Inspection after test	:	The tyre does not exhibit tread separation, ply separation, cord separation, chunking or broken cords.	
2.	Remarks	:	---	

