CEAT

CELEBRATING **100 YEARS** OF EXCELLENCE

TRUCK & BUS

RADIAL TIRES


CEAT

CONTENTS

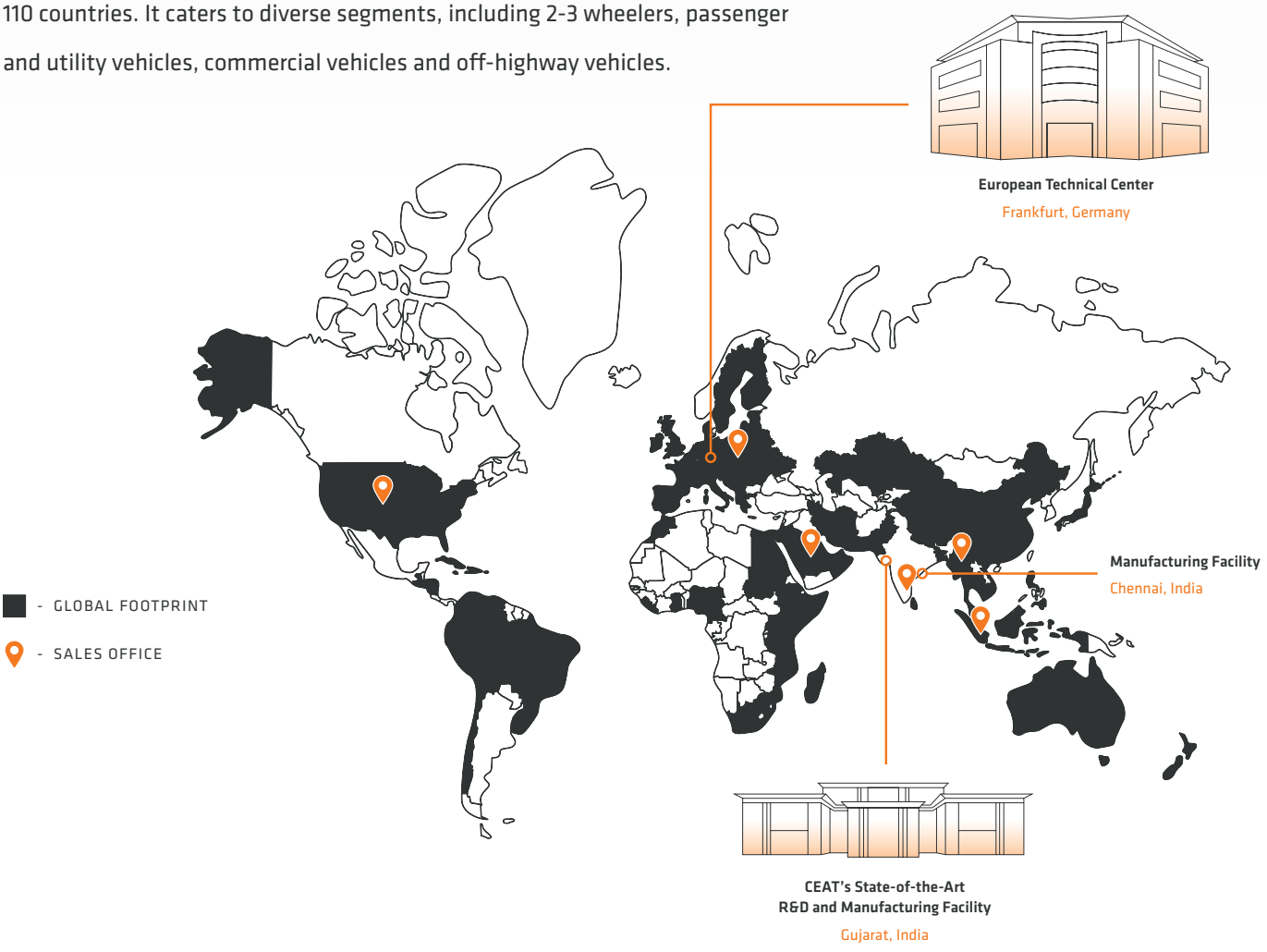
ABOUT CEAT

CEAT, the flagship company of RPG Enterprises, was established in 1924 in Italy. Today, CEAT is one of India's leading tire manufacturers and has a strong presence in global markets. CEAT achieved the distinction of being the first tire brand worldwide to be awarded the "Lighthouse Designation" by the World Economic Forum, recognizing its Halol plant in Gujarat. Additionally, it is the 1st tire brand worldwide to have earned the prestigious Deming Grand Prize from JUSE (Union of Japanese Scientists and Engineers).

Headquartered in Mumbai, CEAT has six state-of-the-art, technologically advanced manufacturing plants and contributes to the global agenda of sustainable development through its innovative R&D centers at Halol and Frankfurt, Germany.

CEAT PRODUCES MORE THAN 41 MILLION HIGH-QUALITY TIRES ANNUALLY,

serving both domestic and international markets with export to more than 110 countries. It caters to diverse segments, including 2-3 wheelers, passenger and utility vehicles, commercial vehicles and off-highway vehicles.

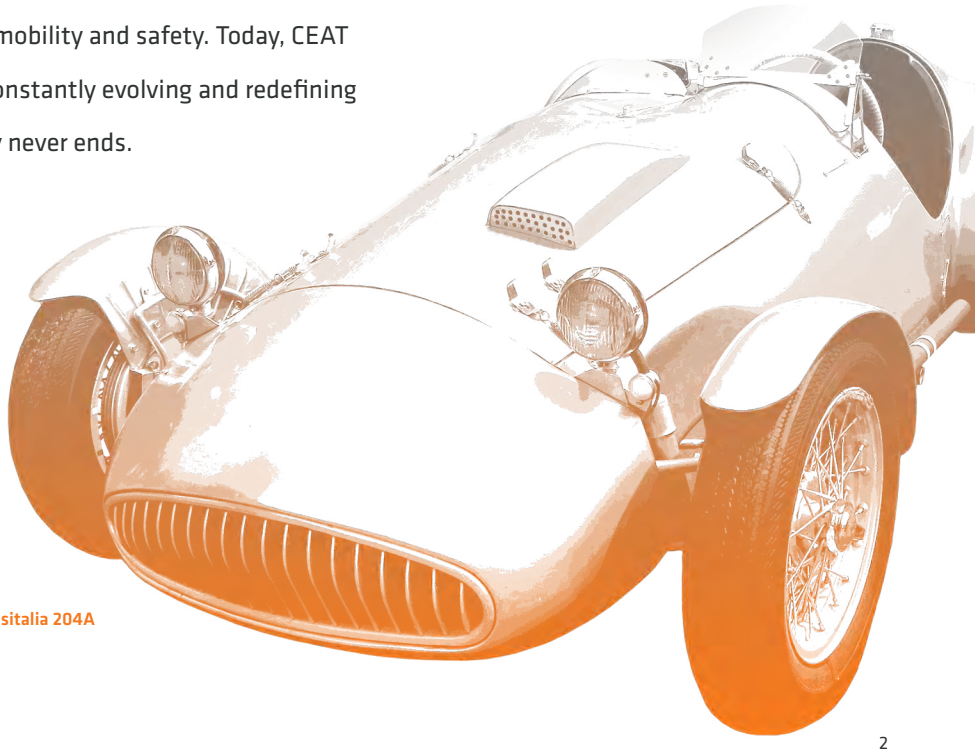


100 YEARS OF CEAT

Born amidst the Renaissance air of Italy's Turin, CEAT emerged as a symbol of Italian craftsmanship and innovation. From its first car tire in 1946 to triumphs on racing tracks, including victories of the Cisitalia 204A, CEAT has etched its mark in automotive history. In 1958, a collaboration between the Tedeschi family and the Tata Group established CEAT Tires of India Ltd, with the Bhandup factory set up the same year. Initially nurtured under the Tata Group, CEAT found deeper roots in India. In 1983, the RPG Group embraced its legacy, propelling CEAT into global expansion. In 1996, it launched the revolutionary Maestro radial car tire, setting new standards in technology and performance.

WITH ROOTS IN HERITAGE AND AMBITION, CEAT'S JOURNEY STANDS AS A TESTAMENT TO THE ENDURING SPIRIT OF COLLABORATION AND INNOVATION.

Earning prestigious awards like the Deming Grand Prize, CEAT is synonymous with tire excellence, shaping the future of mobility and safety. Today, CEAT isn't just a brand; it's a legacy in motion, constantly evolving and redefining industry standards. With CEAT, the journey never ends.



Abarth "Barchetta" Cisitalia 204A

DEMING GRAND PRIZE

In November 2023, CEAT Ltd became the first tire brand in the world to receive the prestigious Deming Grand Prize. This honor is awarded to organizations that have previously won the Deming Prize and sustained excellence in Total Quality Management (TQM) for over three years. CEAT embarked on its TQM journey over fifteen years ago and was the first tire company outside Japan to win the Deming Prize in 2017. Established in 1969 by the Union of Japanese Scientists and Engineers (JUSE), the Deming Grand Prize is one of the most esteemed quality awards worldwide. **CEAT is one of only 33 companies globally and the sole tire brand to receive this distinction.**

CEAT's customer-centric approach and superior quality standards have been crucial in earning this honor, showcasing its commitment to excellence and partnership-based success.

LIGHTHOUSE CERTIFICATION

CEAT's Halol plant was awarded the 'Lighthouse Certification' by the World Economic Forum in January 2023 making it the first tire company in the world and the first auto ancillary company in India to join the 'Global Lighthouse Network.'

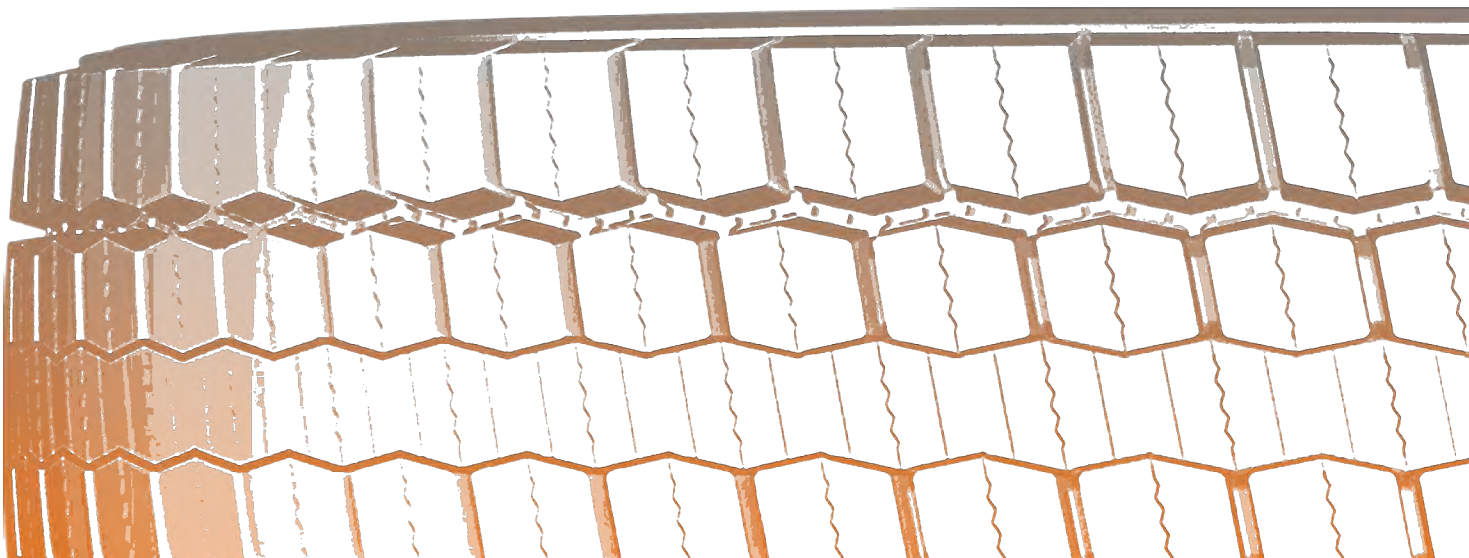
This certification is given to manufacturers who use Advanced Fourth-Industrial Revolution (4IR) technologies to transform factories, value chains, and business models for sustainability, productivity and empowering the workforce. **The prestigious certification from the WEF confirms the unflagging commitment to innovation and quality manufacturing at CEAT.**

CEAT deployed the 4IR technologies such as machine learning, virtual reality, and industrial IOT to ensure 100% coverage of operator touchpoints. As a result, CEAT has reduced cycle times by 20%, processing scrap by 46%, and energy consumption by 15%, leading to a ~2.5x increase in export and OEM sales in the past two years. (Data as of April 2023)

BRITISH SAFETY COUNCIL SWORD OF HONOUR

In April 2023, CEAT successfully completed a Five Star Occupational Health and Safety Audit by the British Safety Council, showcasing its dedication to health and safety management. CEAT's Chennai plant underwent a comprehensive evaluation of its occupational health and safety policies, processes, and practices, including documentation review, interviews with senior management, employees, and stakeholders, and sampling of operational activities. The audit measured performance against key health and safety management best practices and reviewed nearly sixty component elements. **CEAT was awarded a five-star grading, reflecting its status as a best practice organization.**

Other CEAT facilities with this grading include Halol (2016) and Nagpur (2018). Mike Robinson, CEO of the British Safety Council, stated that this achievement is reflective of a proactive organization committed to continual improvement in health and safety arrangements. This accomplishment underscores CEAT's commitment to the safety and well-being of its employees and stakeholders, striving to maintain best practices.



RESEARCH & DEVELOPMENT

CEAT is working towards a smarter tomorrow by investing in technological and R&D capabilities to deliver superior quality, innovative, and customer-centric products. The CEAT R&D centers in Germany and India are well-equipped with new simulation technologies and predictive testing.

An advanced stage-gate new product development system ensures customer requirements are converted into product quality. The design studios, supported by advanced design tools and simulation techniques, help ensure the right qualities are built into each product. The company's state-of-the-art test facility simulates field performance, ensuring the optimum performance of CEAT tires under a range of conditions.

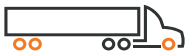
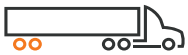
MANUFACTURING

CEAT focuses on continuous improvement and innovation using digital and Industry 4.0 technologies across its plants to enhance its value chain. In addition to the Lighthouse certified Halol plant, CEAT's Chennai warehouse, with a capacity of over a quarter of a million finished tires, features an automated tire handling system integrated with the automated warehouse. This system aims to improve delivery quality and reduce dispatch time, not manpower.

CEAT's technology initiatives, including smart factory enablement at Chennai, Nagpur, and Halol, have transformed traditional manufacturing into intelligent, scalable systems.

These smart factories have an agile work culture and are equipped with virtual reality based training stations to ensure faster and better operator training. The company upgraded its technology with Edge and Cloud architecture and developed a Digital Analytics Center of Excellence (CoE) with over 25 experts to solve manufacturing issues digitally.

APPLICATION CHART

APPLICATION	PATTERN	SIZE	STEER AXLE	DRIVE AXLE	TRAILER AXLE
 REGIONAL	**WINMILE S**	**295/75 R22.5** **11 R22.5**	●		●
 REGIONAL	**WINMILE S**	**315/80R22.5**	●		●
 REGIONAL	**WINMILE D** Closed Shoulder	**295/75 R22.5** **11 R22.5**		●	
 REGIONAL	**WINMILE D** Open Shoulder	**295/75 R22.5** **11 R22.5**		●	
 REGIONAL	**WINMILE T**	**295/75 R22.5** **11 R22.5**			●
 LONG HAUL	**WINMILE D** Closed Shoulder	**295/75 R22.5** **11 R22.5**		●	
 LONG HAUL	**WINSUPER LHT**	**295/75 R22.5**			●
 URBAN	**WINMILE AW** 19.5	**225/70 R19.5** **245/70 R19.5**	●	●	
 URBAN	**WINMILE AW** 17.5	**215/75 R17.5** **235/75 R17.5**	●	●	●
 URBAN	**WINMILE D** 19.5	**225/70 R19.5** **245/70 R19.5**		●	

WINMILE S

REGIONAL MILEAGE PATTERN, STEER

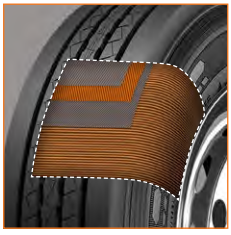
Recommended for high traction and high scrub applications in:

Regional Haul Service / Pickup & Delivery Service

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
113143	295/75R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	123 (55.6)	9	11.6 (295)	39.8 (1011)	18.8 (477)	507	21	75
113147	11R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	127 (57.7)	8.25	11.1 (282)	41.3 (1049)	19.5 (494)	489	21	75
114358	11R24.5	H	16	7160 (3250)	120 (830)	6610 (3000)	120 (830)	138 (62.5)	8.25	11.1 (282)	43.3 (1101)	20.4 (519)	466	21	75

WIDER SHOULDER RIB WITH UNIFORM CONTACT AREA
provides lateral stability and traction resulting in uniform wear and superior tire life

SMARTWAY APPLIED
for proven fuel effeciency



DURABLE CASING STRUCTURE WITH WEATHER RESISTANCE COMPOUND
to withstand impact, premature aging and deliver retreadability

WINMILE S

REGIONAL MILEAGE PATTERN, STEER

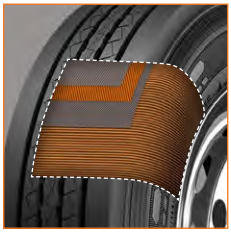
Recommended for high traction and high scrub applications in:

Regional Haul Service / Pickup & Delivery Service

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
106439	315/80R22.5	L	20	8818 (4000)	131 (900)	7385 (3350)	131 (900)	149 (67.8)	9	11.9 (303)	42.4 (1077)	19.9 (506)	476	20	75

WIDER SHOULDER RIB WITH UNIFORM CONTACT AREA
provides lateral stability and traction resulting in uniform wear and superior tire life

SMARTWAY APPLIED
for proven fuel effeciency



DURABLE CASING STRUCTURE WITH WEATHER RESISTANCE COMPOUND
to withstand impact, premature aging and deliver retreadability

SYMMETRICAL LINEAR GROOVE PATTERN
provides excellent handling and high tire mileage

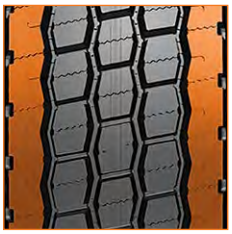
WINMILE D CLOSED SHOULDER

REGIONAL MILEAGE PATTERN, DRIVE

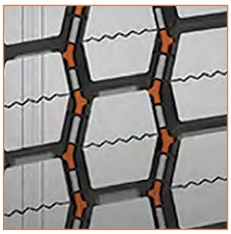
Deep drive tire recommended for drive applications in:

Regional Haul Service / Long Haul Service. Pickup & Delivery Service

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
113141	295/75R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	130 (58.8)	9	11.6 (295)	40.5 (1029)	18.9 (481)	498	30	75
113145	11R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	136 (61.7)	8.25	11.1 (282)	41.8 (1062)	19.5 (495)	483	30	75
114357	11R24.5	H	16	7160 (3250)	120 (830)	6610 (3000)	120 (830)	144 (65.4)	8.25	11.1 (282)	44 (1118)	20.7 (525)	459	30	75

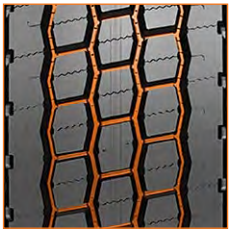


WIDE SOLID SHOULDER RIBS WITH OPTIMIZED BLOCK DESIGN
resist block twisting due to torque and traction providing uniform wear and superior tire life



INNOVATIVE STONE EJECTING DESIGN
minimizes trapped stones to enhance casing durability

DURABLE CASING STRUCTURE WITH WEATHER RESISTANCE COMPOUND
to withstand impact, premature aging and deliver retreadability



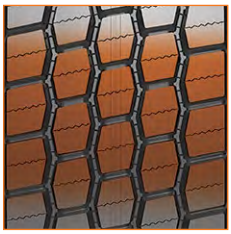
EXTRA DEEP TREAD PATTERN
offers long tire life

WINMILE D OPEN SHOULDER

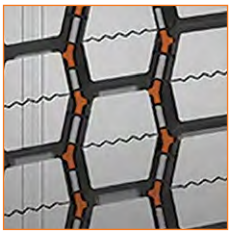
REGIONAL MILEAGE PATTERN, DRIVE

Recommended for single drive axle applications such as 4X2 and 6X2 tractors, and 4X2 straight trucks in: ***Regional Haul Service, Pickup & Delivery Service***

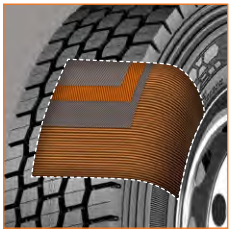
PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
113142	295/75R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	130 (58.9)	9	11.6 (295)	40.5 (1029)	18.9 (481)	498	30	75
113146	11R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	136 (61.5)	8.25	11.1 (282)	41.8 (1062)	19.5 (495)	483	30	75



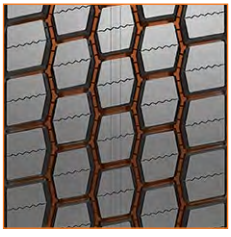
OPTIMIZED BLOCK DESIGN WITH UNIFORM CONTACT AREA
provides multiple gripping edges for grip and traction and also provides uniform wear and superior tire life



INNOVATIVE STONE EJECTING DESIGN
minimizes trapped stones to enhance casing durability



DURABLE CASING STRUCTURE WITH WEATHER RESISTANCE COMPOUND
to withstand impact, premature aging and deliver retreadability



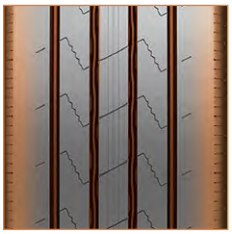
EXTRA DEEP TREAD PATTERN
offers long tire life

WINMILE T

REGIONAL MILEAGE PATTERN, TRAILER

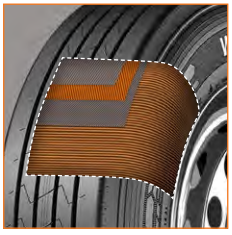
A trailer specific tire recommended for single and tandem-axle trailer and dolly applications in: ***Regional Haul Service***

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
113140	295/75R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	111 (50.3)	9	11.6 (295)	39.4 (1001)	18.6 (471)	512	13	75
113144	11R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	116 (52.7)	8.25	11.1 (282)	40.8 (1036)	19.2 (488)	495	13	75



OPTIMIZED TRAILER PATTERN WITH ROUNDED SHOULDER RIBS
resists lateral scrubbing to provide uniform wear and superior tire life

SCRUB RESISTANT SIDEWALL
reduces damage from curbing and improves retreadability



DURABLE CASING STRUCTURE WITH WEATHER RESISTANCE COMPOUND
to withstand impact, premature aging and deliver retreadability

WINSUPER LHT

LONG HAUL MILEAGE PATTERN, TRAILER

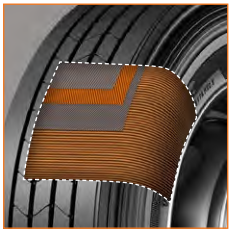
A trailer specific tire recommended for single and tandem-axle trailer and dolly applications in: ***Long Haul Service***

5 YEAR **WARRANTY**

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
113790	295/75R22.5	H	16	6610 (3000)	120 (830)	6005 (2725)	120 (830)	102 (46.2)	9	11.6 (295)	39.3 (998)	18.5 (469)	513	11.1	75

WIDE SHOULDER RIBS WITH A UNIFORM CONTACT AREA provides lateral stability along with traction, resulting in uniform wear and superior tire life

SCRUB RESISTANT SIDEWALL reduces chances of damage from curbing and improves retreadability



WEATHER RESISTANT COMPOUND WITH SUPER TENSILE STEEL BODY PLY combine to create a durable casing with excellent impact resistance and retreadability

DETACHED SHOULDER RIB [DSR] prevents uneven wear of shoulder ribs due to lateral force

WINMILE AW

URBAN MILEAGE PATTERN, ALL POSITION

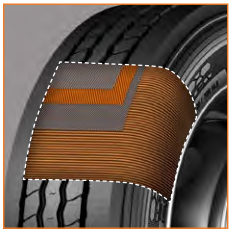
An all-position tire specifically recommended for special service applications in:

Regional Haul Service / Pickup & Delivery Service

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
113599	225/70R19.5	G	14	3970 (1800)	110 (760)	3750 (1700)	110 (760)	72 (32.7)	6.75	9 (229)	32 (813)	15.2 (387)	631	15.7	87
113597	245/70R19.5	H	16	4938 (2240)	120 (825)	4674 (2120)	120 (825)	79 (35.8)	7.5	9.8 (249)	33.1 (841)	15.5 (393)	610	17.6	81

WIDE SHOULDER RIB WITH CONTINUOUS CENTER RIB provide uniform wear, traction and stability on road throughout the life of the tire, while increasing tire life

SCRUB RESISTANT SIDEWALL reduces chances of damage from curbing and improves retreadability



WEATHER RESISTANT COMPOUND WITH SUPER TENSILE STEEL BODY PLY combine to create a durable casing with excellent impact resistance

WINMILE AW

URBAN MILEAGE PATTERN, ALL POSITION

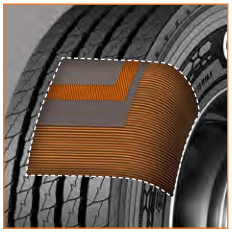
An all-position tire specifically recommended for special service applications in:

Regional Haul Service / Pickup & Delivery Service

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
114008	215/75R17.5	H	16	4806 (2180)	123 (850)	4542 (2060)	123 (850)	70 (31.7)	6	8.4 (213)	30.2 (767)	14.1 (358)	668	16.8	68
114009	235/75R17.5	H	16	6008 (2725)	127 (875)	5677 (2575)	127 (875)	75 (34)	6.75	9.3 (236)	31.5 (800)	14.4 (365)	641	17.7	62

5 RIB TREAD DESIGN WITH LONGITUDINAL AND RADIAL SIPES
increase traction and stability while extending tire life

SCRUB RESISTANT SIDEWALL
reduces damage from curbing and improves retreadability



WEATHER RESISTANT COMPOUND WITH SUPER TENSILE STEEL BODY PLY
combine to create a durable casing with excellent impact resistance

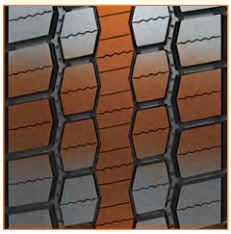
WINMILE D

URBAN MILEAGE PATTERN, DRIVE

A drive tire recommended for high traction and high scrub applications in:

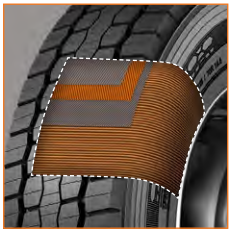
Regional Haul Service / Pickup & Delivery Service

PRODUCT CODE	TIRE SIZE	LOAD RANGE	PLY RATING	SINGLE LOAD CAPACITY LBS (KG)	SINGLE INFLATION PSI (KPA)	DUAL LOAD CAPACITY LBS (KG)	DUAL INFLATION PSI (KPA)	WEIGHT LBS (KG)	RIM WIDTH IN	OVERALL WIDTH IN (MM)	OVERALL DIAMETER IN (MM)	STATIC RADIUS IN (MM)	RPM	TREAD DEPTH 32NDS	MAX SPEED MPH
113598	225/70R19.5	G	14	3970 (1800)	110 (760)	3750 (1700)	110 (760)	75 (33.8)	6.75	9 (229)	32.3 (820)	15.2 (387)	625	18.6	87
113596	245/70R19.5	H	16	4938 (2240)	120 (825)	4674 (2120)	120 (825)	81 (36.8)	7.5	9.8 (249)	33.1 (841)	15.6 (395)	610	19	81



OPTIMIZED BLOCK DESIGN WITH CONTINUOUS CENTER RIB provide uniform wear, traction and stability on road throughout the life of the tire, while increasing tire life

SCRUB RESISTANT SIDEWALL reduces damage from curbing and improves retreadability



WEATHER RESISTANT COMPOUND WITH SUPER TENSILE STEEL BODY PLY combine to create a durable casing with excellent impact resistance and retreadability

INNOVATIVE STONE EJECTING DESIGN minimizes trapped stones to enhance casing durability

UPCOMING PRODUCTS

APPLICATION	SIZE	STEER AXLE	DRIVE AXLE	TRAILER AXLE
 MIXED SERVICE	315/80R22.5	●	●	●
 MIXED SERVICE	385/65R22.5	●	●	●
 REGIONAL / MIXED SERVICE	255/70R22.5			●
 LONG HAUL	295/75R22.5	●		
 LONG HAUL	11R22.5	●		
 LONG HAUL	295/75R22.5		●	
 LONG HAUL	11R22.5		●	

LOAD TABLES

Conversion of load Indexes [LI] into Load Capacities per Tire [LBS and KG]

LI	LBS (KG)
80	990 (450)
81	1020 (462)
82	1045 (475)
83	1075 (487)
84	1100 (500)
85	1135 (515)
86	1170 (530)
87	1200 (545)
88	1235 (560)
89	1280 (580)
90	1325 (600)
91	1355 (615)
92	1390 (630)
93	1435 (650)
94	1475 (670)
95	1520 (690)
96	1565 (710)
97	1610 (730)
98	1655 (750)
99	1710 (775)
100	1765 (800)
101	1820 (825)
102	1875 (850)
103	1930 (875)
104	1965 (900)
105	2040 (925)
106	2095 (950)
107	2150 (975)
108	2205 (1000)
109	2270 (1030)

LI	LBS (KG)
110	2335 (1060)
111	2405 (1090)
112	2470 (1120)
113	2535 (1150)
114	2600 (1180)
115	2680 (1215)
116	2755 (1250)
117	2835 (1285)
118	2910 (1320)
119	3000 (1360)
120	3085 (1400)
121	3195 (1450)
122	3305 (1500)
123	3415 (1550)
124	3525 (1600)
125	3640 (1650)
126	3750 (1700)
127	3860 (1750)
128	3970 (1800)
129	4080 (1850)
130	4190 (1900)
131	3000 (1950)
132	4410 (2000)
133	4540 (2060)
134	4675 (2120)
135	4805 (2180)
136	4940 (2240)
137	5070 (2300)
138	5205 (2360)
139	5355 (2430)

LI	LBS (KG)
140	5510 (2500)
141	5675 (2575)
142	5840 (2650)
143	6010 (2725)
144	6175 (2800)
145	6395 (2900)
146	6615 (3000)
147	6780 (3075)
148	6945 (3150)
149	7165 (3250)
150	7385 (3350)
151	7605 (3450)
152	7605 (3450)
153	8045 (3650)
154	8265 (3750)
155	8545 (3875)
156	8820 (4000)
157	9095 (4125)
158	9370 (4250)
159	9645 (4375)
160	9920 (4500)
161	10195 (4625)
162	10470 (4750)
163	10745 (4875)
164	11025 (5000)
165	11355 (5150)
166	11685 (5300)
167	12015 (5450)
168	12345 (5600)
169	12785 (5800)
170	13230 (6000)

SPEED TABLES

Speed Symbols KM/H and MPH

SYMBOL	KM/H	MPH
E	70	43
F	80	50
G	90	56
J	100	62
K	110	68
L	120	75
M	130	81
N	140	87
P	150	93
Q	160	99
R	170	106
S	180	112
T	190	118

TIRE CONSTRUCTION

TREAD

Tread comes in direct contact with the road and provides the traction required to maneuver the vehicle. The design of the tread varies with the application type and axle position on the vehicle. The tread base helps in minimizing the temperature.

BELTS

Steel belts restrict the casing growth, minimize distortion of the tire surface contacting the ground and provide puncture resistance. Steel belts restrict case growing during use and increase the tire's structural strength.

BODY PLY

These plies give the tire its structural strength, ability to contain air pressure, its deflection characteristics and provide sidewall impact resistance. They transmit all load, driving, braking and steering forces between the wheel and tire tread.

BELT EDGE FILLER

Rubber skim is placed at the ends of working belts. This aims to reduce the shear forces acting on the belt ends during the tire use.

SHOULDER CUSHION

Shoulder cushions are contoured rubber strips placed on the body ply under the belt ends. They help provide belt contouring and insulate the body ply from the belt edges.

SIDEWALL

The sidewall flexing enables ride comfort and lateral stability. The surface of the sidewall is engraved with all information relating to the loading and speed capacity, inflation pressure, and brand / product name.

BEAD BUNDLE

Bead bundles are continuous rubber-coated high tensile wires wound to form a high-strength unit to the specific diameter that fits the inflated tire perfectly on a wheel rim. They are the anchor that maintains the carcass seated on the rim, and resists the pull force of carcass cords tensioned by inflation pressure.

INNER LINER

This is made from a compound with very low permeability. It prevents the diffusion of air and moisture through the tire structure.

RIM STRIP

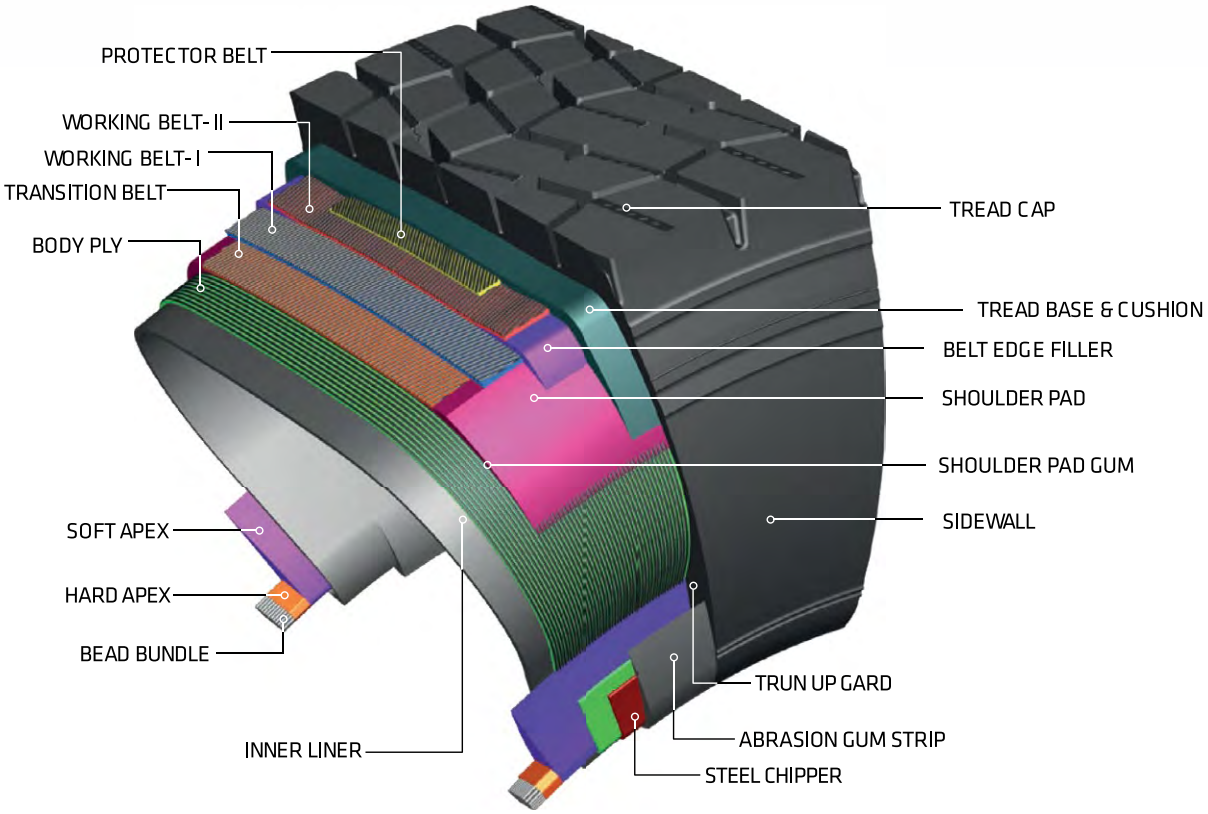
The rim strip is the rubber layer between the body ply and wheel rim. It is in direct contact with the wheel rim and is designed to undergo the rigor of mounting and demounting.

APEX

The apex is a rubber profile placed above the bead bundle, which provides a smooth transition from the stiff bead area to the flexible sidewall.

CHAFER

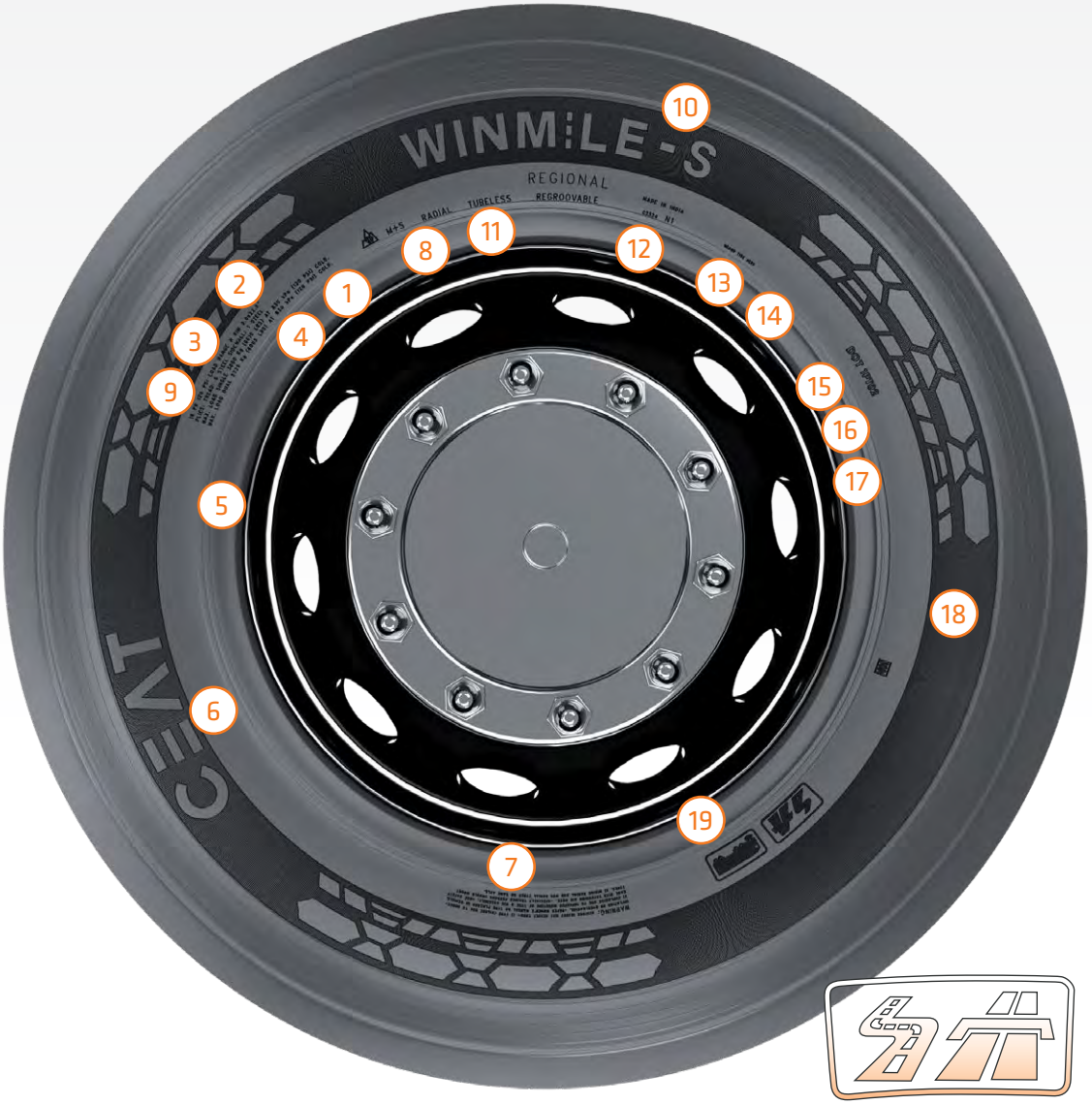
The chafer is a strip of wire placed around the body ply cord in the bead area. Its purpose is to protect the bead area from damage during mounting / demounting and reduce the effects of chafing between the wheel and tire bead.



SIDEWALL MARKINGS

10
WINMILE-S

Product Category | Operating Segment | Axle Position / Pattern Design



1] Recommended Inflation Pressure

2] Load Range

3] Ply Rating

4] Load & Speed Details

5] Nominal Load Index & Speed symbol

6] Manufacturer's Name

7] Safety Warning

8] M+S / Traction Marking

9] Construction Details

10] Product Name

11] Tubeless

12] Country of Origin

13] All Steel Radial

14] Provision for Hot Branding

15] Dot Marking

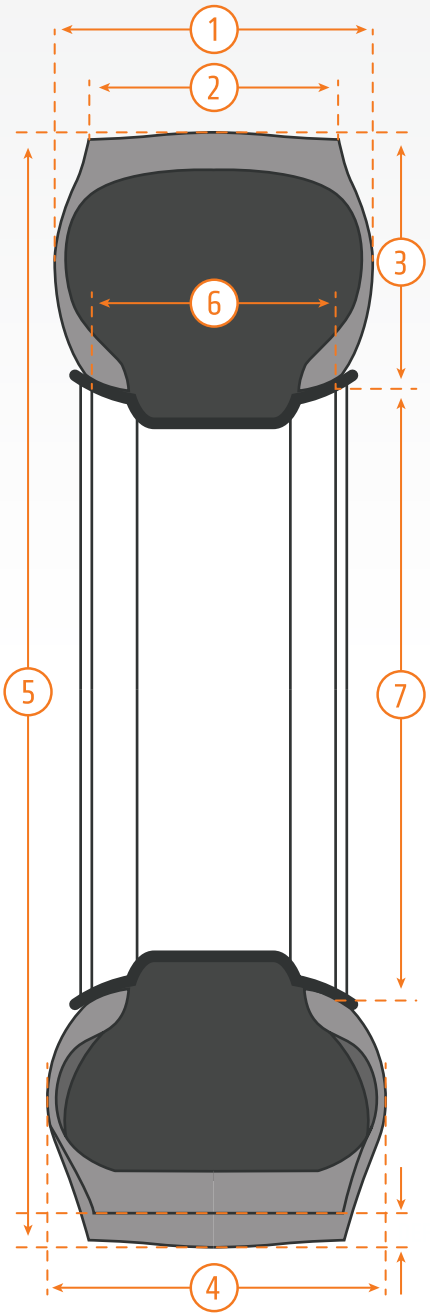
16] Serial Number

17] Week & Year Code

18] Size Marking

19] Recommended Segment & Axle Position

TIRE DIMENSIONS



1] SECTION WIDTH

The linear distance between the outside of the sidewalls of an inflated tire, excluding the elevations due to labeling, decorations and protective bands or ribs.

2] TREAD WIDTH

The linear distance between the edges of the tread design area of an inflated tire.

3] SECTION HEIGHT

The distance from the bead seat to the outer tread design area of an inflated tire,

4] LOAD SECTION WIDTH

The width of the loaded cross section of an inflated tire.

5] OVERALL DIAMETER [OD]

The diameter of an inflated tire at the outermost surface of the tread.

6] RIM WIDTH

The width of the rim measured from flange to flange.

7] NORMAL RIM DIAMETER

The diameter of the rim measured from seat to seat.

TIRE SIZE DESCRIPTIONS

11 R 22.5 16 (H)

1 2 3 4 5

1] **Nominal Section Width** in Inches (Conventional)

2] **Radial Construction**

3] **Tubeless Rim Diameter** in Inches (Conventional)

4] **Ply Rating**

5] **Load Range**

315/80 R 22.5 20 (L)

1 2 3 4 5 6

1] **Nominal Section Width** in Millimeters (Metric)

2] **Aspect Ratio**

3] **Radial Construction**

4] **Tubeless Rim Diameter** in Inches (15° Tapered Bead)

5] **Ply Rating**

6] **Load Range**

PLY RATING / LOAD RANGE

CEAT tires are marked with a Ply Rating and equivalent Load Range. These markings are used to identify the load and inflation limits of that particular tire when used in a specific type of service.

PLY RATING	LOAD RANGE
2	A
4	B
6	C
8	D
10	E
12	F
14	G
16	H
18	J
20	L
22	M

SPEED SYMBOL

The Speed Symbol indicates the speed at which a tire can carry a load (determined by the tire's Load Index) under service conditions specified by CEAT.

SPEED SYMBOL	SPEED CATEGORY KM / H	MPH
F	80	50
G	90	56
J	100	62
K	110	68
L	120	75
M	130	81
N	140	87

TIRE ROTATION

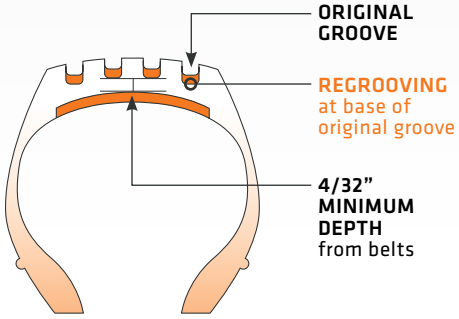
Tire rotation is a practical means of reducing tire costs when irregular or rapid wear are prevalent. Rotation patterns, such as those recommended by vehicle manufacturers, may be followed. There are no restrictions on criss-cross rotation. Tires having directional type tread patterns should be mounted in the recommended direction of rotation for optimum performance.

For many directional type designs it is permissable to change the direction of rotation after the first 3/32" - 5/32" of tread wear. Contact the tire manufacturer for pattern specific recommendation. The casing, after retreading, may be run in either direction as the casing is not directional.

REGROOVING

Regroove only those tires marked "Regroovable" on the sidewall. Tires with a remaining tread depth of less than 2/32" should not be regrooved. It is recommended that tires exibiting severe irregular wear not be regrooved. Regrooved tires should not be placed on the front axle.

Regrooving should be restricted to the tire's original tread grooves. A minimum rubber guage of 4/32" must be maintained between the tire's top belt and the re-grooved grooves.



STORAGE

Tires should be stored using the following guidelines:

1] Aviod storing tires in direct sunlight.

2] Aviod storing tires near a heat source or in the path of a direct flow of forced air.

3] Keep tires away from electric motors and generators which produce ozone.

4] Do not store near petrolium products or chemicals (such as oil, grease, gasoline, solvent, etc.)

5] Limit stacking to a maximum of 5 feet in height.

6] Store un-mounted tires indoors in a dry location. Steel radial tires may be severly damaged due to the presence of moisture inside the tire at mounting. Upon pressurization, this moisture can permeate the casing of the tire and cause severe deterioration of the steel cords.

7] Prior to mounting, inspect the inside surface of the tire and remove all foreign material and moisture.

8] Keep compressed air sources for tire inflation free of moisture.

Failure to follow the above guidelines could result in sudden tire failure, property damage and personal injury.

SERVICE DESCRIPTION

CEAT LTD. provides a service description onto the sidewall of all premium products. This service description, which consists of one or more load indices and speed symbols, is located close to the tire size designation on the sidewall of the tire. The load index relates to the maximum load carrying capacities allowed at the speed indicated by the speed symbol. The speed symbol relates to the maximum speed allowed for the load carrying capacities associated with the load index. Below are examples of a load index / speed symbol associated with a medium radial truck tire.

Consult your local CEAT Tire representative for confirmation of the suitability of the tire/wheel assembly for the intended service.

144/141 — LOAD INDICES (SINGLE/ DUAL)

L — SPEED SYMBOL

SAFETY GUIDELINE

WARNING: Serious injury may result from:

1] Tire failure due to under inflation or overloading. Refer to Owner's Manual or tire placard in vehicle.

2] Explosion due to improper mounting of tire and rim assembly. Use safety cage wit extension air hose. Specially trained persons should mount tires.

3] Mixing radial and non-radial tires on the same axle.

LIMITED WARRANTY ON CEAT TRUCK RADIAL TIRES

This Limited Warranty and Adjustment Policy ("Limited Warranty and Policy") issued by CEAT Tires is a promise of replacement under certain specified conditions for up to 5 Years from the Date of Manufacture. Every Eligible Tire presented to an authorized distributor during the Warranty Period shall be eligible for a free or pro-rated replacement as stated below.

ELIGIBILITY

You are covered by this Limited Warranty if all the following apply:

- You are the original owner, or original owner's authorized agent, of any new CEAT brand truck tire, bearing a Department of Transportation (DOT) tire identification number indicating manufacture after July 1, 2019 (DOT serial 2719 or later).
- The new Product was purchased from an authorized distributor of CEAT.
- Your CEAT TBR tires have been used only on the vehicle on which they were originally installed according to the vehicle manufacturer's or CEAT's recommendations.
- The Product must be inspected by an authorized distributor of CEAT.

WHAT IS COVERED UNDER THIS WARRANTY AND FOR HOW LONG?

Upon examination by an authorized distributor of CEAT, and subject to terms and conditions stated herein,

1] An eligible Tire will be replaced with a new tire of the same pattern or a tire with the same basic construction but with different sidewall or tread configuration free of charge (Federal Excise Tax included) up to the first 60% of original usable tread depth or within 12 months from the date of tire manufacture, whichever occurs first. The costs of mounting and balancing will be refunded up to $16 per tire. Applicable taxes and fees will be the responsibility of the owner of the vehicle.

2] An eligible Tire worn beyond the first 60% of the original usable tread depth and within 12 months from the date of tire manufacture shall be replaced with a new tire of the same pattern or a tire with the same basic construction but with a different sidewall or tread configuration against credit for such replacement on pro-rata basis *(please refer to the Adjustment Treadwear Chart on page 27)*.

3] An eligible Tire that crossed 12 months from the date of tire manufacture shall be replaced with a new tire of the same pattern or a tire with the same basic construction but with different sidewall or tread configuration during the life of the original usable tread (down to 2/32" remaining usable tread), will be reimbursed to the owner in terms of the casing value as defined below.

APPLICABILITY	PERIOD	RIM SIZE/CASING VALUE	DEFECTS CONSIDERED
After 12 months from Date of Manufacturing	Up to 5 Years from the Date of Manufacturing	22.5" – $70 *(For Original Casing)* 19.5" – $60 *(For Original Casing)* 17.5" – $60 *(For Original Casing)*	Manufacturing Defects Only

The costs of mounting and balancing will be payable by the owner of the vehicle along with the applicable taxes and fees.

ADJUSTMENT TREADWEAR CHART

ORIGINAL TREAD DEPTH																										
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
% OF USABLE TREAD WEAR CHARGES TO CUSTOMER																										REMAINING TREAD DEPTH
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	2/32
85	88	89	90	91	92	92	93	93	94	94	94	95	95	95	95	96	96	96	96	96	96	97	97	97	97	3/32
71	75	78	80	82	83	85	86	87	88	88	89	89	90	90	91	91	92	92	92	93	93	93	93	94	94	4/32
57	63	67	70	73	75	77	79	80	81	82	83	84	85	86	86	87	88	88	88	89	89	90	90	90	91	5/32
43	50	58	60	64	67	69	71	73	75	76	78	79	80	81	82	83	83	84	85	85	86	86	87	87	88	6/32
28	38	44	50	55	58	62	64	67	69	71	72	73	75	76	77	78	79	80	81	81	82	83	83	84	84	7/32
14	25	33	40	45	50	54	57	60	63	65	67	68	70	71	73	74	75	76	77	78	79	79	80	81	81	8/32
0	13	22	30	36	42	46	50	53	56	59	61	63	65	67	68	70	71	72	73	74	75	76	77	77	78	9/32
	0	11	20	27	33	38	43	47	50	53	56	58	60	62	64	65	67	68	69	70	71	72	73	74	75	10/32
		0	10	18	25	31	36	40	44	47	50	53	55	57	59	61	63	64	65	67	68	69	70	71	72	11/32
			0	9	17	23	25	33	38	41	44	47	50	52	55	57	58	60	62	63	64	65	67	68	69	12/32
				0	8	15	21	29	31	35	39	42	45	48	50	52	54	56	58	59	61	62	63	65	66	13/32
					0	8	14	20	25	29	33	37	40	43	45	48	50	52	54	56	57	59	60	61	63	14/32
						0	7	13	19	24	28	32	35	38	41	43	45	48	50	52	54	55	57	58	59	15/32
							0	7	13	17	22	26	30	33	35	39	42	44	46	48	50	52	53	55	56	16/32
								0	6	12	18	21	25	29	32	35	38	40	42	44	46	48	50	52	53	17/32
									0	6	11	15	20	24	27	30	33	36	38	41	41	43	47	48	50	18/32
										0	6	11	15	19	23	26	29	32	35	37	39	41	43	45	47	19/32
											0	5	10	14	18	22	25	28	31	33	36	38	40	42	44	20/32
												0	5	10	14	17	21	24	27	30	32	34	37	39	41	21/32
													0	5	9	13	17	20	23	26	29	31	33	35	38	22/32
														0	5	9	13	16	19	22	25	28	30	32	34	23/32
															0	4	8	12	15	19	21	24	27	29	31	24/32
																0	4	8	12	15	18	21	23	26	28	25/32
																	0	4	8	11	14	17	20	23	25	26/32
																		0	4	7	11	14	17	19	22	27/32
																			0	4	7	10	13	16	19	28/32
																				0	4	7	10	13	16	29/32
																					0	3	7	10	13	30/32
																						0	3	6	9	31/32
																							0	3	6	32/32
																								0	3	33/32

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