

Contents

| Truck Tyre Range and Application Map | 4 |
|---|----|
| Tyre Range | |
| On Road Fuel Efficient | 6 |
| On Road Mileage | 12 |
| Mixed Service | 20 |
| Offroad | 26 |
| Urban | 30 |
| Coach | 34 |
| Winter | 38 |
| Technical Data | 44 |
| Retread Information and Regrooving Guidelines | 56 |
| Retread Information | 58 |
| Regrooving Guidelines | 60 |
| On Road Fuel Efficient | 62 |
| On Road Mileage | 64 |
| Mixed Service | 66 |
| Offroad | 68 |
| Urban | 69 |
| Coach | 70 |
| Winter | 71 |
| Tyre Technology | 74 |
| Tyre Construction | 76 |
| Tyre Terminology | 77 |
| Truck Tyre Label | 78 |
| Tyre Markings | 80 |
| Load Index and Speed Symbol | 84 |
| Interaction of Load and Speed | 85 |
| Rim and Wheels | 88 |
| Tubes and Flaps | 90 |
| Valves | 92 |
| Manufacturing Process | 94 |

(

Truck Tyre Range and Application Map

| | | 39998 | F | | | | |
|---------|---------------------------|----------------------------|-------------------------------------|----------------------------------|--|-------------------------|-------------------------------|
| | ON ROAD FUEL EFFICIENT | ON ROAD MILEAGE | MIXED SERVICE | OFFROAD | URBAN | COACH | WINTER |
| STEER | | | | | | | |
| | FUELMAX S 22.5" | KMAX S 22.5" | | | | | ULTRA GRIP MAX S 22.5" |
| | | | | | | | |
| | LHS II+ 5-rib 22.5" | RHS II 22.5" | MSS II 19.5", 20", 22.5" and 24" | | UrbanMax MCS 22.5" | | ULTRA GRIP WTS 5-rib 22.5" |
| | | | | | | | |
| | LHS II+ 6-rib 22.5" | RHS II+ 17.5" and 19.5" | MSS 375/90R22.5 and 445/75R22.5 | ORS 22.5" | UrbanMax MCA 19.5" and 22.5" | Marathon Coach 22.5" | ULTRA GRIP WTS 6-rib 22.5" |
| | | | | | Manual Annual An | | |
| DRIVE | FUELMAX D 22.5" | KMAX D | MSD II | ORD | UrbanMax MCA 19.5" and 22.5" | Marathon Coach 22.5" | ULTRA GRIP MAX D |
| | 22.5" | 22.5" | 20", 22.5" and 24" | 14.00R20 | 19.5" and 22.5" | 22.5" | 22.5" |
| | LHD II+ 22.5" | RHD II+ 22.5" | MSD II Super Single 385/55R22.5 | ORD 22.5" and 24" | UrbanMax MCD Super Single 22.5" | | |
| | | | | | | | |
| | | RHD II+ 17.5" and 19.5" | MSD II Super Single 495/45R22.5 | ORD 365/85R20 and 375/90R22.5 | UrbanMax MCD * Traction 22.5" | ULTRA GRIP Coach 22.5" | ULTRA GRIP WTD 22.5" |
| | | | | | | | |
| TRAILER | FUELMAX T 22.5" | KMAX T | | | | | ULTRA GRIP MAX T |
| | 22.5" | 19.5" and 22.5" | | | | | 22.5" |
| | FUELMAX T 435/50R19.5 | RHT II 22.5" | | | | | |
| | | | | | | | |
| | LHT II 22.5" | RHT II 17.5" and 19.5" | MST II 22.5" | | | | ULTRA GRIP WTT 22.5" |
| | | | | | | | |



FUELMAX S 22.5"



FUELMAX S features IntelliMax Groove Technology, an optimised cavity shape and other innovations resulting in improved fuel efficiency and up to 6% better rolling resistance compared to its predecessor*.



- o IntelliMax Groove Technology. Optimised rolling resistance during tyre wear
- High Net to Gross to optimise wearable rubber volume with reduced tread depth.
 Improved rolling resistance and mileage
- Optimised Cavity shape. Excellent compromise for rolling resistance, mileage and handling
- Optimised blade angles. Rolling resistance and wet grip enhancement
- Edge blades. Improved wet grip

*Comparative tests made by Goodyear GIC*L on size 315/70R22.5 show that new Goodyear FUELMAX S and FUELMAX D steer and drive tyres offer an improvement in rolling resistance of up to 6% and 10% respectively vs. Goodyear Marathon LHS II + and LHD II + tyres.

Technical Data



| Size | Load Index | Speed Symbo | I Comments | (6 | | |
|-------------|-------------------|----------------|-------------------|----|---|-------|
| 295/60R22.5 | 150/147 (149/146) | L (K) | | С | С | 72)) |
| 295/80R22.5 | 154/149 | M | High Load version | В | В | 70) |
| 315/60R22.5 | 154/148 | L | High Load version | В | В | 71)) |
| 315/70R22.5 | 156/150 | L | High Load version | В | В | 71)) |

| Size | Load Index | Speed Symbol | Comments | | (); | | |
|-------------|-------------------|-----------------|----------|---|-----|-------|--|
| 315/80R22.5 | 156/150 (154/150) | L (M) | | В | В | 71)) | |
| 385/55R22.5 | 160 (158) | K (L) | | Α | C | 70) | |
| 385/65R22.5 | 160 (158) | K (L) | | В | С | 71)) | |

FUELMAX D 22.5"



Up to 10% improved rolling resistance compared to its predecessor*. Thanks to a high-net-to gross ration in combination to low tread depth the new FUELMAX D tyre leads to lower rolling resistance and improved mileage. FUELMAX D also features the M+S and 3 Peak Mountain snow flake resulting in excellent winter traction and meeting legal winter requirements.



- High Net-to-Gross ratio. Improved rolling resistance and higher mileage
- Extra wide tread width. Better rolling resistance and mileage
- Reduced Non-skid depth. Better rolling resistance and noise
- o Directional tread design. Better traction and noise
- Rain drop / flexomatic blades. Improved mileage, traction and handling

* Comparative tests made by Goodyear GIC*L on size 315/70R22.5 show that new Goodyear FUELMAX S and FUELMAX D steer and drive tyres offer an improvement in rolling resistance of up to 6% and 10% respectively vs. Goodyear Marathon LHS II + and LHD II + tyres.

Technical Data



| Size | Load Index | Speed Symbol | Comments | (6 | O. | |
|-------------|-------------------|-----------------|----------|-----------|----|-----------------------|
| 295/60R22.5 | 150/147 (149/146) | K (L) | | С | В | 72) M+S 🕸 TreadMax) |
| 295/80R22.5 | 152/148 | М | | С | В | 72) M+S 🕸 TreadMax 🗘 |
| 315/60R22.5 | 152/148 | L | | С | С | 73) M+S 🕸 TreadMax 🗘 |

| Size | Load Index | Speed Symbol | Comments | (6 | | |
|-------------|-------------------|-----------------|----------|----|---|-----------------------|
| 315/70R22.5 | 154/150 (152/148) | L (M) | | В | В | 72) M+S 🕸 TreadMax |
| 315/80R22.5 | 156/150 (154/150) | L (M) | | С | В | 72) M+S & TreadMax) |

FUELMAX T 19.5" and 22.5"



FUELMAX T features a multi – radius cavity and a special tread compound resulting in ultra low rolling resistance, superb fuel savings, improved mileage performance and good braking in wet conditions.



- Multi-radius cavity
 Ultra low rolling resistance and superb fuel savings
- Special tread compound
 High mileage potential and good wet grip





| Size | Load Index | Speed Symbol | Comments | | | | | Size | Load Index | Speed Symbo |
|-------------|---------------|-----------------|----------|---|---|-------|----------|-------------|---------------|----------------|
| 435/50R19.5 | 160 | J | | Α | С | 71)) | TreadMax | 385/65R22.5 | 160 (158) | K (L) |
| 385/55R22 5 | 160 (158) | K (I) | | ۸ | ٢ | 70) | | - | | |

| Size | Load Index | Speed Symbol | Comments | (6 | | | |
|-------------|---------------|-----------------|----------|----|---|-------|----------|
| 385/65R22.5 | 160 (158) | K (L) | | В | С | 72)) | TreadMax |

Marathon LHS II+ 22.5"



Marathon LHS II + features a dedicated tread compound using the Silefex technology designed to lower the fuel consumption and emissions while keeping wet grip performance and mileage potential at a premium level.



- Wide tread, 5 rib layout (6 rib for 65, 55 and 50 series) for excellent mileage, even wear and good handling/stability
- "Flexomatic Blades" and "Edge Blading" on grooves for excellent braking on wet, even wear and high mileage
- Latest technology carcass geometry and materials for reduced weight, enhanced damage resistance, durability and retreadability
- Low rolling resistance (-7% vs LHS II)*

Technical Data



| Size | Load Index | Speed Symbo | | (6 | | (G1) |
|-------------|-------------------|----------------|-------------------|----|---|--------------|
| 295/60R22.5 | 150/147 (149/146) | K (L) | LHS II version | С | В | 71)) |
| 295/80R22.5 | 152/148 | M | LHS II version | С | В | 69) |
| | 152/148 | M | LHS LR8 version | С | В | 70) |
| 315/80R22.5 | 156/154 (150/150) | L (M) | LHS LR8 version | С | С | 70) |
| | 158/150 | L | High Load version | В | В | 70) |

| Size | Load Index | Speed Symbol Cor | mments () | | (C +1) |
|-------------|---------------|---------------------|----------------|---|---------------|
| 355/50R22.5 | 154 (152) | K (L) | В | В | 72)) |
| | 156 (152) | K (L) High | Load version B | В | 72)) |
| 375/50R22.5 | 156 | K LHS | II version B | В | 71)) |
| 385/65R22.5 | 160 (158) | K (L) | C | В | 72)) |

Marathon LHD II+ 22.5"



Marathon LHD II + features a dedicated tread compound using the Silefex technology designed to lower the fuel consumption and emission while keeping good wet traction performance and mileage potential at a premium level.



- Wide tread with large shoulder ribs for excellent mileage, traction and braking as well as even wear pattern
- "3D-BIS" waffle blade technology for traction and braking performance and improved handling and stability
- Latest technology carcass geometry and materials for reduced weight, enhanced damage resistance, durability and retreadability
- Reduced rolling resistance (-7% vs LHD II)*

Technical Data



| Size | Load Index | Speed Symbol | Comments | (6 | | | |
|-------------|-------------------|-----------------|----------------|-----------|---|------------|--|
| 295/55R22.5 | 147/145 | K | | С | D | 73)) M+S | |
| 295/60R22.5 | 150/147 (149/146) | K (L) L | LHD II version | С | С | 74))) M+S | |

| Size | Load Index | Speed Symbol | Comments | (6 | O. | | |
|-------------|-------------------|-----------------|----------------|----|----|------------|--|
| 315/80R22.5 | 156/150 (154/150) | L (M) | LHD II version | D | С | 74))) M+S | |
| 495/45R22.5 | 169 | K | LHD version | С | С | 72)) M+S | |

Marathon LHT II 19.5" and 22.5"



The Marathon LHT II has been developed to support fleet efficiency and reduce cost per km. It features super low rolling resistance (up to 26% improvement*) combined to improved mileage performance, good braking on wet and low noise emissions. Additional payload through reduced tyre weight is another feature of the marathon trailer tyres.



- Fuel savings
- Excellent mileage
- Good braking on wet
- Increased payload
- Good durability and retreadability



* TUV report : No 76242917

Technical Data



| Size | Load Index | Speed Symbol | Comments | (6) | | |
|-------------|-------------------|-----------------|-------------|-----|---|-------|
| 265/55R19.5 | 141/140 (142/142) | J (G) L | _HT version | С | С | 73)) |
| 435/50R19.5 | 160 | J | | Α | С | 71)) |
| 11R22.5 | 148/145 (146/143) | J(L) L | HT version | С | С | 68) |

| Size | Load Index | Speed Symbol | Comments | | | | |
|-------------|-------------------|-----------------|----------|---|---|-------|--|
| 275/70R22.5 | 152/148 (148/145) | J (L) | | С | С | 70) | |
| 385/55R22.5 | 160 (158) | K (L) | | Α | С | 70) | |
| 385/65R22 5 | 160 (158) | K (I) | | R | C | 72)) | |

10 1°

^{*} Internal evaluation performed by Goodyear Innovation Center Luxembourg in 2011 on 315/70R22.5

^{*} Internal evaluation performed by Goodyear Innovation Center Luxembourg in 2011 on 315/70R22.5



KMAX S 22.5"



Up to 30% more mileage compared to its predecessor*. Thanks to its computer modeled tread profile for optimised tyre pressure distribution, the KMAX S tyre offers regular wear, high mileage, robustness, good braking on wet and excellent handling.



- o IntelliMax Rib Technology: Stiffer tread. High mileage and regular wear
- Wide tread, optimised foot print. High mileage
- Robust, wide shoulders. Improved robustness
- o Specific blading frequency and geometry. Excellent braking on wet

*Comparative tests made by Goodyear Innovation Centre Luxembourg on size 315/80R22.5 between July 2011 and June 2013 show that new Goodyear KMAX S and KMAX D steer and drive tyres offer an improvement in mileage potential of up to 30% and 35% respectively vs. Goodyear RHS II and RHD II+ tyres.

Technical Data



| Size | Load Index | Speed Symbol | Comments | | | (C1) |
|-------------|-------------------|-----------------|-------------------|---|---|--------------|
| 295/60R22.5 | 150/147 (149/146) | K (L) | | С | В | 71)) M+S |
| 295/80R22.5 | 154/149 | M | High Load version | С | В | 72)) M+S |
| 315/60R22.5 | 154/148 | L | High Load version | С | В | 71)) M+S |
| 315/70R22.5 | 156/150 | L | High Load version | С | В | 72)) M+S |

| Size | Load Index | Speed Symbol | I Comments | 6 | | 0 | D)) | | |
|-------------|-------------------|-----------------|-------------------|---|-------------------|----|-----|-------|--|
| 315/80R22.5 | 156/150 (154/150) | L(M) | | С | В | 71 |)) | M+S | |
| 355/50R22.5 | 156 (152) | K (L) | High Load version | | Under developn | | | M+S A | |
| 385/65R22 5 | 160 (158) | K (I) | | R | R | 70 | ١ | M+S | |

KMAX D 22.5"



Up to 35% more mileage compared to its predecessor*. The KMAX D offers high mileage potential, high traction performance and low noise emission thanks to optimised tyre pressure distribution, the right number of pitches, the non-skid optimised block geometry and a higher wearable rubber volume compared to its predecessors. The KMAX D also meets established winter requirements carrying both the M+S and the 3 Peak Mountain Snow Flake symbol.



- High Net-to-Gross ratio. Improved rolling resistance and higher mileage
- Extra wide tread width. Better rolling resistance and mileage
- o Increased Non-skid depth. Improved mileage
- Directional V-shape tread design. Better traction and noise
- Flexomatic blades. Improved mileage, traction and handling

*Comparative tests made by Goodyear Innovation Centre Luxembourg on size 315/80R22.5 between July 2011 and June 2013 show that new Goodyear KMAX S and KMAX D steer and drive tyres offer an improvement in mileage potential of up to 30% and 35% respectively vs. Goodyear RHS II and RHD II+ tyres.

Technical Data



| Size | Load Index | Speed Symbol | Comments | (6 | i) Li | |
|-------------|-------------------|-----------------|----------|-----------|-------|---------------------|
| 295/55R22.5 | 147/145 | K | | С | В | 72) M+S 🕸 |
| 295/60R22.5 | 150/147 (149/146) | K (L) | | С | В | 72) M+S & TreadMax |
| 295/80R22.5 | 152/148 | M | | D | С | 72) M+S A TreadMax |

| Size | Index | Symbol | Comments | | | |
|-------------|-------------------|--------|----------|---|---|-----------------------|
| 315/60R22.5 | 152/148 | L | | D | В | 73) M+S 🕸 TreadMax 🔿 |
| 315/70R22.5 | 154/150 (152/148) | L(M) | | D | С | 72) M+S 🕸 TreadMax 🗘 |
| 315/80R22.5 | 156/150 (154/150) | L (M) | | D | С | 71) M+S 🕸 TreadMax |

KMAX T 19.5" and 22.5"



KMAX T offers superb mileage performance thanks to multi radius cavity shape and high wearable rubber volume associated to an innovative tread compound which also resists to groove cracking and tread chunking.



- Improved casing and tuned footprint. Improved mileage performance
- Innovative tread compound. Fuel saving potential
- High wearable rubber volume. Excellent Mileage potential
- Reduced stone holding. Resistance to groove cracking
- Improved edge blades. Excellent braking on wet



Technical Data



| Size | Load Index | Speed Symbol Comments | (6 | O. | | |
|-------------|---------------|--------------------------|--------|----|-----------|----------|
| 435/50R19.5 | 160 | J RFID | В | С | 73)) M+S | |
| 385/55R22.5 | 160 (158) | K (L) | В | В | 71)) M+S | TreadMax |
| 385/65R22.5 | 160 (158) | K (L) | В | В | 71)) M+S | TreadMax |
| | 164 (158) | K (L) High Load vers | sion B | С | 71)) M+S | |

| Size | Load Index | Speed Symbol Comment | s (F.C. (Fo)) |
|-------------|---------------|-------------------------|---------------|
| 425/65R22.5 | 165 | K | B B 72)) M+S |
| 445/65R22.5 | 169 | K | B B 72)) M+S |

Regional RHS II 22.5"



The regional haul steer generation tyre coping with the demanding requirements of modern regional haul service, dedicated for high mileage and a wide application range. The combination of a specifically developed tread pattern with an innovative high silica content tread compound results in excellent mileage performance, excellent wet braking, even wear and reduced rolling resistance.



- Wide tread, 5 rib pattern, groove edge blading, for excellent mileage, even wear and superb handling and stability
- High density, flexomatic blading, for outstanding braking on wet surfaces combined with high mileage
- Advanced technology, high silica tread compound, for high mileage combined with reduced rolling resistance, good tear and damage resistance

Technical Data



| Size | Load Index | Speed Symbo | | (6) | | |
|-------------|-------------------|----------------|-------------|-------------|---|-------|
| 11R22.5 | 148/145 (146/145) | L (M) | | С | В | 69) |
| | 148/145 | L | RHS version | D | С | 70) |
| 12R22.5 | 152/148 | L | | С | В | 70) |
| | 152/148 | L | HCT | С | В | 71)) |
| | 152/148 | L | RHS version | | | |
| 13R22.5 | 156/150 (154/150) | L (M) | | D | С | 70) |
| 275/70R22.5 | 148/145 | M | | D | В | 71)) |
| 295/60R22.5 | 150/147 (149/146) | K (L) | | С | В | 70) |
| 295/80R22.5 | 152/148 | M | HCT | С | В | 71)) |
| | 152/148 | M | CCC | С | В | 69) |

| Size | Load Index | Speed Symbol | Comments | | | |
|-------------|-------------------|-----------------|-------------------|---|---|-------|
| 305/70R22.5 | 153/150 (150/148) | L (M) | | С | В | 70) |
| 315/70R22.5 | 154/150 (152/148) | L (M) | | С | В | 71)) |
| 315/80R22.5 | 156/150 (154/150) | L (M) | | С | В | 71)) |
| | 156/150 (154/150) | L (M) | RHS version | С | В | 71)) |
| | 156/150 (154/150) | L (M) | CCC | С | В | 70) |
| | 158/150 | L | High Load version | С | Α | 70) |
| | 156/150 (154/150) | L (M) | HCT | С | В | 71)) |
| 385/65R22.5 | 160 (158) | K (L) | | В | В | 71)) |

Regional RHS II 17.5" and 19.5"



The 17.5" and 19.5" steer generation tyres feature KMax Technology – a combination of advanced technology design and construction features. The wide, 5 rib tread pattern, with high density flexomatic blading results in excellent mileage performance, good handling and stability as well as good braking on wet. Latest technology tread compounds, carcass and belt materials assure good durability and retreadability of these steer tyres.

RHS II in 17.5" & 19.5" sized tyres are developed for a wide application range, covering today's multiple service types in regional and distribution operations.



- Wide, 5 rib tread pattern for high mileage, good handling and even wear
- Flexomatic blading on center ribs, for improved braking on wet and mileage
- Rib edge blading on outer grooves result in even wear pattern and better wet braking
- Specifically developed groove geometries result in reduced stone holding

Technical Data



| Size | Load Index | Speed Symbo | | (6 | O. | |
|-------------|---------------|----------------|-------------------|----|----|-----------|
| 8.5R17.5 | 121/120 | M | RHS version | Ε | С | 69) |
| 9.5R17.5 | 129 /127 | М | | D | С | 71)) M+S |
| 205/75R17.5 | 124 /122 | M | RHS II+ version | D | В | 73)) M+S |
| 215/75R17.5 | 128 /126 | М | High Load version | D | В | 72)) M+S |
| 225/75R17.5 | 129 /127 | М | | Ε | В | 72)) M+S |
| 235/75R17.5 | 132 /130 | М | | Ε | С | 72)) M+S |
| 245/70R17.5 | 136 /134 | М | RHS II+ version | D | В | 71)) M+S |

| Size | Load Index | Speed Symbo | | (6 | N. S. | (F4)) |
|-------------|--------------------|----------------|-----------------|----|-------|---------------|
| 265/70R17.5 | 139 /136 | M | RHS II+ version | С | В | 72)) M+S |
| | 139 /136 | М | | D | С | 72)) |
| 245/70R19.5 | 136 /134 | M | | Е | С | 72)) M+S |
| 265/70R19.5 | 140 /138 | М | | D | С | 72)) M+S |
| 285/70R19.5 | 146 /144 (144/142) | L (M) | | D | С | 71)) M+S |
| 305/70R19.5 | 148 /145 | М | | D | С | 72)) M+S |
| | | | | | | |

Regional RHD II 22.5"



The regional haul drive generation tyre coping with the demanding requirements of modern regional haul service. The tyre is designed for high mileage and a wide application range and features KMax Technology developed to increase mileage performances without compromising other tyre characteristics.

RHD II brings a further improvement in mileage, handling and wear type thanks to a tuned tread pattern configuration. It suits a wide application range, from long haul to local delivery.



- Wide tread, 5 rib directional pattern, for excellent mileage, even wear and superb handling and stability
- Special, directional groove tapers, highly bladed pattern, for improved wet braking and mileage performances, excellent traction and winter grip
- New technology, high silica tread compound, for high mileage combined with good tear and damage resistance
- Dedicated carcass geometry, latest technology carcass materials resulting in enhanced robustness, durability and retreadability

Technical Data



| Size | Load Index | Speed Symbo | | | | |
|-------------|-------------------|----------------|-------------|---|---|-------------------|
| 11R22.5 | 148/145 | L | RHD version | Е | С | 73)) M+S |
| | 148/145 | L | | D | С | 78))) M+S |
| 12R22.5 | 152/148 | L | | E | С | 78))) |
| | 152/148 | L | HCT | D | С | 77))) M+S |
| 13R22.5 | 156/150 (154/150) | L(M) | | D | С | 78))) M+S |
| 275/70R22.5 | 148/145 | M | | D | D | 77))) M+S |
| 295/60R22.5 | 150/147 (149/146) | K (L) | | D | D | 75))) M+S |

| Size | Load Index | Speed Symbo | | (6 | O. | |
|-------------|---------------------|----------------|-----------------|----|----|-------------------|
| 295/80R22.5 | 152/148 | M | HCT | D | С | 77))) M+S |
| 305/70R22.5 | 153/150 (150/148) | L(M) | | D | С | 77))) M+S |
| 315/70R22.5 | 154 /150 (152/148) | L(M) | RHD II+ version | D | С | 76))) M+S |
| 315/80R22.5 | 156/150 (154/150) | L(M) | | D | С | 78))) M+S |
| | 156/150 (154/150) | L (M) | | D | В | 77))) M+S |
| | 156//150 (154/150) | L (M) | HCT | С | В | 77))) M+S |

Regional RHD II 17.5" and 19.5"



The 17.5" and 19.5" generation drive tyres, feature KMax Technology – a combination of advanced technology design and construction features. The wide tread pattern, featuring a high net to gross center area, with 3D BIS blading, results in high mileage, good all season traction performance and even wear type. Advanced technology tread compounds, carcass and belt materials assure good durability and retreadability of these drive tyres.

RHD II in 17.5" & 19.5" sized tyres are developed for a wide application range, covering today's multiple service types in regional and distribution operation.



- A wide tread pattern with high net-to-gross area, resulting in excellent mileage, good handling and even wear type
- The high density blading combined to the specific block distribution in the center ribs results in excellent traction performance and all season capabilities
- Latest technology 3D BIS blades for improved traction and braking on wet and wintery roads
- Specifically designed groove geometries to reduce stone holding

Technical Data



| Size | Load Index | Speed Symbol | | (6 | | |
|-------------|--------------------|-----------------|------------------|----|---|-------------|
| 8.5R17.5 | 121/120 | M | RHD version | Ε | С | 73)) M+S |
| 9.5R17.5 | 129 /127 | M | | Е | С | 71) M+S 🕸 |
| 205/75R17.5 | 124 /122 (126/124) | M (G) | RHD II + version | D | В | 73) M+S 🕸 |
| 215/75R17.5 | 126 /124 | M | RHD II + version | D | В | 73) M+S 🕸 |
| 225/75R17.5 | 129 /127 | M | | Ε | В | 74)) M+S 🕸 |
| 235/75R17.5 | 132 /130 | M | | D | В | 73) M+S ♠ |

| Size | Load Index | Speed Symbol | Comments | (6 | | |
|-------------|--------------------|-----------------|------------------|----|---|-------------------|
| 245/70R17.5 | 136 /134 | M | RHD II + version | D | В | 73) M+S 🕸 |
| 265/70R17.5 | 139 /136 | M | | D | D | 73) M+S 🕸 |
| 245/70R19.5 | 136 /134 | M | | D | С | 74)) M+S 🕸 |
| 265/70R19.5 | 140 /138 | M | | D | В | 74)) M+S 🎄 |
| 285/70R19.5 | 146 /144 (144/142) | L (M) | | D | С | 75)) M+S 🕸 |
| 305/70R19.5 | 148 /145 | M | | D | D | 73) M+S ♠ |

Regional RHT II 22.5"



Goodyear RHT II (22.5") offers a superb mileage performance thanks to its multi radius cavity shape and its high wearable rubber volume associated to an innovative tread compound which offers resistance to groove cracking and tread chunking.



- Superb mileage potential (+30% vs RHT*) and wear evenness
- Excellent robustness and high resistance in shoulder wear
- Reduced stone catching and resistant to groove cracking
- Low rolling resistance for fuel efficiency
- High wet grip level



* Based on mileage evaluation in two fleets in Spain and in France from 2010 to 2011

Technical Data



| Size | Load Index | Speed Symbol Comments | C. C. C. | Size | Load Index | Speed Symbol Comments | C. C. C. |
|-------------|---------------|--------------------------|-----------------|-------------|---------------|--------------------------|----------------|
| 385/55R22 5 | 160 (158) | K (I) | B B 71)) [M+S] | 385/65B22 5 | 160 (158) | K(I) HCT | B B 70) [M+s] |

Regional RHT II 17.5" and 19.5"



Goodyear RHT II (15.5, 17.5" and 19.5") has been developed to cover the various low platform trailer applications like car transportation in long and regional haul services. This tread pattern provides improved mileage potential and shoulder wear robustness.



- Excellent mileage potential (+9% vs Marathon LHT lpt*) and even wear profile
- Excellent robustness and damage resistance provided by the 4-rib pattern and the strong shoulder ribs
- Reduced stone catching and resistant to groove cracking



*Based on mileage evaluation in a car transportation fleet in Germany from 2010 to 2011

Technical Data



| Size | Load Index | Speed Symbol | Comments | | Size |
|-------------|--------------------|-----------------|----------|---------------|-------------|
| 9.5R17.5 | 143/141 | J | | C B 70) M+S | 245/70R19.5 |
| 205/65R17.5 | 129/127 (132 /132) | K (F) | | C B 71)) M+S | 265/70R19.5 |
| 215/75R17.5 | 135/133 | J (F) | | C C 69) M+S | 285/70R19.5 |
| 235/75R17.5 | 143/141 (144 /144) | J (F) | | C B 69) M+S | 435/50R19.5 |
| 245/70R17.5 | 143/141 (146 /146) | J | | B C 69) M+S | |

| Size | Load Index | Speed Symbol Comments | C.C. C |
|-------------|---------------|--------------------------|---------------|
| 245/70R19.5 | 141/140 | J (F) | C B 70) M+S |
| 265/70R19.5 | 143/141 | J | C B 70) M+S |
| 285/70R19.5 | 150/148 | J | B B 71)) M+S |
| 435/50R19.5 | 160 | J RFID | B C 73)) M+S |







M+S (Mud and Snow) indicates that a tyre has better snow traction than a regular tyre (see details on page 80)



3PMSF (Three Peak Mountain Snowflake) indicates that a tyre has passed a minimum performance threshold requirement on snow (see details on page 80)



TreadMax retreads are produced exclusively in-house and utilise the same casing, tread pattern and materials as new tyres - resulting in a similar to new tyre performance (see details on page 58)



FRT (Free Rolling Tyre) indicates that the tyre should only be fitted to free rolling axles, such as trailer applications (see details on page 80)



Omnitrac MSS II 19.5", 20", 22.5" and 24"



The Goodyear Omnitrac MSS II features a wide tread, 4-rib and 5-rib pattern for excellent mileage and even wear, combining latest technology materials and design features. Its robust tread pattern provides high mileage in on road use and good damage resistance. The specific groove layouts ensure good self cleaning and reduced stone holding.



- Excellent mileage, even wear pattern
- Improved on/off road braking
- Good damage resistance and stability
- Reduced stone holding/drilling, good self cleaning
- Excellent durability and retreadability

Technical Data



| Size | Load Index | Speed Symbol | Comments | (6 | | (C +0) | |
|-------------|-------------------|-----------------|-------------|----|---|---------------|----------|
| 265/70R19.5 | 143/141 (140/138) | J (L) | | D | В | 71)) M+S | |
| 12.00R20 | 154 /150 | K | | С | В | 71)) M+S | |
| 11R22.5 | 148 /145 | K | MSS version | D | В | 70) M+S | |
| 12R22.5 | 152 /148 | K | | С | В | 70) M+S | |
| 13R22.5 | 156 /150 | K | | D | В | 70) M+S | TreadMax |
| | 156 /150 | K | MSS version | D | С | 70) M+S | |
| | 156 /150 | K | HCT | С | В | 70) M+S | |
| 275/70R22.5 | 148 /145 | K | | D | В | 72)) M+S | |
| | | | | | | | |

| Size | Load Index | Speed Symbol | Comments | | 1 | (C•1) | |
|-------------|---------------|-----------------|---------------|---|----------|-----------|----------|
| 295/80R22.5 | 152 /148 | K | | D | В | 71)) M+S | |
| 315/80R22.5 | 156 /150 | K | | D | В | 70) M+S | TreadMax |
| | 156 /150 | K | HCT | D | В | 70) M+S | |
| 385/65R22.5 | 160 (158) | K (L) | | С | В | 73)) M+S | |
| 12.00R24 | 160 /156 | K | | С | В | 71)) M+S | |
| | 160 /156 | K | MSS * version | С | С | 70) M+S | |
| 325/95R24 | 162 /160 | K | | С | В | 71)) M+S | |

Omnitrac MSS 375/90R22.5 and 445/75R22.5

The Goodyear Omnitrac MSS 445/75R22.5 and 375/90R22.5 are especially designed for high load vehicles in mixed service and on-road applications.



- o Specific tear- and wear-resistance
- Added protection against cuts, chipping and chunking
- Excellent traction, handling
- Increased cargo payload and flotation characteristics

Technical Data



| Size | Load Index | Speed Symbol Comments | | Size | Load Index | Speed Symbol Comments | C. C. C. | |
|-------------|---------------|--------------------------|------------------|-------------|---------------|--------------------------|-----------------|--|
| 375/90R22 5 | 164 | G | C. B. 70) [M+S] | 445/75R22 5 | 170 | 1 | C B 71)\ [M+S] | |

Omnitrac MSD II 20", 22.5" and 24"



The Omnitrac MSD II with a specifically developed robust tread pattern provides excellent traction in on and off road conditions, high mileage in on road use and good damage resistance. The specific groove layouts ensure good self cleaning and reduced stone holding.



- Excellent traction and braking
- High mileage, even wear pattern
- Improved on/off road braking
- Excellent self cleaning
- Enhanced traction on unpaved surfaces
- Improved traction on mud
- · Excellent durability and retreadability

Technical Data



| Size | Index | Symbol | Comments | | | (C 10) | |
|-------------|----------|--------|----------|---|---|------------------|----------|
| 12.00R20 | 154 /150 | K | | Е | В | 73)) M+S | |
| 12R22.5 | 152 /148 | K | HCT | D | В | 71) M+S | |
| 13R22.5 | 156 /150 | K | | Е | В | 73)) M+S | TreadMax |
| | 156 /150 | K | HCT | D | В | 73)) M+S | |
| 295/80R22.5 | 152 /148 | K | | Е | В | 73)) M+S | |
| | | | | | | | |

| Size | Load Index | Speed Symbol Comments | | 15. | (Co) | |
|-------------|---------------|--------------------------|---|-----|--------------|----------|
| 315/80R22.5 | 156 /150 | K | Е | В | 74)) M+S | TreadMax |
| | 156 /150 | K HCT | Е | В | 74)) M+S | |
| 12.00R24 | 160 /156 | K | С | В | 73)) M+S | |
| 325/95R24 | 162 /160 | K | С | В | 73)) M+S | |

Omnitrac MSD II Super Single 385/55R22.5 and 495/45R22.5



1st in industry – "Super Single" drive axle tyres for mixed service/ construction site applications. The super single range is the best alternative to "dual mounted" drive axle tyre fitments on mixed service trucks. The tread pattern is specifically developed to provide excellent traction and braking on mud and wet surfaces, combined to good damage resistance.



- Light weight super single mixed-service drive tyre
- Wide tread providing an excellent mileage
- Slalom centerline groove for improved on/off-road braking and traction
- Good stone drilling resistance and groove self cleaning
- Excellent durability and retreadability

Technical Data



| Size | Load Index | Speed Symbol | Comments | (6 | | | Size |
|-------------|---------------|-----------------|----------|-----------|---|-----------|------|
| 385/55R22.5 | 160 | K | | С | С | 73)) M+S | 495 |

| ze | Load Index | Speed Symbol | Comments | • | | |
|------------|---------------|-----------------|----------|---|---|-----------|
| 95/45R22.5 | 169 | K | | С | D | 74)) M+S |

Omnitrac MST II 22.5"



Goodyear MST II features a wide tread and multi radii cavity for even wear and a mileage increase of 14%.* A Zig-Zag centerline groove and off-set block edge design offer an improved on/ off road traction and massive centerline ribs increase the damage resistance.



- Excellent mileage, increased resistance to cuts, chipping and chunking
- Excellent wet grip
- Self-cleaning
- Excellent traction and resistance to chunking
- Increased durability and retreadability



*Based on mileage performance of the MST II 385/65R22.5 compared to the Goodyear MST 385/65R22.5 in two fleets in Germany and in Belgium from 2009 to 2011.

Technical Data



| Size | Load Index | Speed Symbol Comments | | | (C 0) | | Size | Load Index | Speed Symbol Comments | | | |
|-------------|---------------|--------------------------|---|---|--------------|----------|-------------|---------------|--------------------------|---|---|-----------|
| 385/65R22.5 | 160 (158) | K (L) | С | В | 72)) M+S | TreadMax | 445/65R22.5 | 169 | K | В | В | 71)) M+S |
| | 160 (158) | K(I) HCT | ٢ | R | 71 \\ [M+6] | | | | | | | |





FRT (Free Rolling Tyre) indicates that the tyre should only be fitted to free rolling axles,

(see details on page 58)

such as trailer applications (see details on page 80)



Offroad ORS 22.5"

The Omnitrac ORS steer tyre provides excellent mileage while featuring damage resistant tread patterns.



- · Road handling and lateral stability
- Excellent mileage
- Even wear profile
- High damage, traction and wet skid resistance
- Maximised stone penetration protection

Technical Data



| Size | Load Index | Speed Symbol | Comments | | J. | |
|-------------|---------------|-----------------|----------|---|----|----------|
| 315/80R22.5 | 156/150 | K | | D | В | 70) M+S |

Offroad ORD 14.00R20, 365/85R20 and 375/90R22.5

Originally developed for special military, airport fire brigade and road maintenance applications, the Goodyear Offroad ORD gives excellent off-road traction, stone holding resistance and balanced wear around the circumference.

- o Optimum durability and retreadability
- Exceptional off-road traction and cutting resistance
- Resistance to tearing and cutting for more kilometres
- Self-cleaning to avoid stone holding and increase traction







| Size | Load Index | Speed Symbol | Comments | (6 | | |
|----------|--------------------|-----------------|----------|----|---|-----------|
| 14.00R20 | 164 /160 (166/160) | J (G) | CCC | D | С | 75)) M+S |



| Size | Load Index | Speed Symbol | Comments | (| 0. (1. | | |
|-------------|---------------|-----------------|----------|----------|---------------|-----------|--|
| 365/85R20 | 164 | J | | D | В | 75)) M+S | |
| 375/90R22.5 | 164 | G | | Е | В | 74)) M+S | |

Offroad ORD 22.5" and 24"

The Goodyear Offroad ORD is a specific tyre for off-road applications.

It provides excellent damage resistance and enhanced traction properties even on soft or sandy surfaces.



- Secure off-road traction and high mileage
- Exceptional resistance to tearing and cutting
- Excellent resistance to stone holding and self-cleaning ability

Technical Data



| Size | Load Index | Speed Symbol | Comments | • | | | Size | Load Index | Speed Symbol | Comments | (| | (C-1) |
|---------|--------------------|-----------------|----------|---|---|-----------|-----------|---------------|-----------------|----------|----------|---|------------------|
| 12R22.5 | 152 /148 | J | | Е | В | 75)) M+S | 12.00R24 | 160 /156 | G | | D | С | 75)) M+S |
| 13R22.5 | 156 /150 (154/150) | G (J) | | Е | В | 76)) M+S | 325/95R24 | 162 /160 | G | | D | С | 75)) M+S |



UrbanMax MCA 19.5" and 22.5"



The MCA municipal tyre, featuring UrbanMax Technology, a combination of latest technology tread pattern and state of the art materials.

UrbanMax MCA tyres are specifically developed to provide excellent mileage in "stop & go" applications. In addition it provides good braking and traction on wet. MCA tyres are usable as steer or as all position tyres on municipal vehicles. All season use possible (M+S marked).



- o Wide tread, 5 robust ribs, for suberb mileage and even wear
- Centerline blocks with edge and flexomatic blading for good braking on wet and all season capability.
- Reinforced sidewalls, with wear indicators, to resist to curb scuffing and enhanced durability and damage resistance
- Regroovable and retreadable

Technical Data



| Size | Load Index | Speed Symbol | Comments | (6 | | |
|-------------|---------------------|-----------------|----------|----|---|---------------------|
| 265/70R19.5 | 140 /138 | L | | D | С | 72)) M+S |
| 11R22.5 | 148 /145 (152 /148) | J (E) | | Е | С | 72)) M+S |
| 275/70R22.5 | 148 /145 (152 /148) | J (E) | | Е | С | 71) M+S & TreadMax |

| Size | Load Index | Speed | Comments | | | |
|-------------|---------------------|-------|-------------------|---|---|------------|
| 275/70R22.5 | 150 /145 (152 /148) | J (E) | High Load version | D | С | 71) M+S 🕸 |
| 295/80R22.5 | 152 /148 (154 /150) | J (E) | | Ε | С | 70) M+S |
| 315/60R22 5 | 152 /148 | .l | | D | C | 71)) M+S |

UrbanMax MCS 22.5"



The UrbanMax MCS* is a municipal tyre featuring UrbanMax technology that provides high performance on road and excellent damage resistance.



- Reinforced sidewalls
- Maximised stone penetration protection
- High tearing and cutting resistance
- Even wear profile

Technical Data



| Size | Index | Symbol | Comments | (6 | | | |
|-------------|-------------------|--------|----------|-----------|---|-----------|--|
| 305/70R22.5 | 152/148 (154/150) | J (E) | | D | С | 71)) M+S | |

UrbanMax MCD* Traction 22.5"



The MCD* Traction is a municipal tyre featuring UrbanMax technology specifically developed to provide excellent mileage in normal and winter applications. Also providing superb mileage and good braking.



- Flexomatic blading and 3D-BIS providing mileage, handling and rolling resistance
- Blade density providing winter and wet performance
- Non-intrusive shoulder decreasing damage
- Optimised footprint and pressure distribution for even wear and enhanced tread damage resistance
- Reinforced sidewall providing trouble free lifelong protection

Technical Data



| Size | Load Index | Speed Symbol | Comments | | | (C 01) |
|-------------|-------------------|-----------------|----------|---|---|------------------|
| 275/70B22.5 | 148/145 (152/148) | .l (F) | | F | C | 72) M+S A TOWNS |

UrbanMax MCD Super Single 22.5"



Specifically designed super single tyre for urban bus applications. The 455/45R22.5 is an alternative to dual mounted 275/70R22.5 tyres, providing more inside space, reduced weight and lower rolling resistance.



- Reduced weight
- Lower Rolling Resistance
- Increased inside space

Technical Data



| Size | Load Index | Speed Symbol | Comments | | 1 | (C •0)) | |
|-------------|---------------|-----------------|----------|---|---|----------------|----------|
| 455/45R22.5 | 166 | J | | C | С | 73)) M+S | TreadMay |



Marathon Coach 22.5"



Asymmetric pattern dedicated for all position fitment on long haul and intercity coach applications. Providing excellent mileage, resistance to shoulder wear and high comfort level.



- · Excellent mileage potential and even wear
- Excellent Ride/Handling and Comfort
- High resistance to irregular wear and tread cracks
- Low noise level
- Reduced rolling resistance
- Excellent wet skid performance
- Long lasting carcass & tyre life

Technical Data





| Size | Load Index | Speed Symbol Comments | | | | | Size | Load Index | Speed Symbol | Comments | | | | |
|-------------|---------------|--------------------------|-----|---|----------|----------|-------------|-------------------|-----------------|----------|---|---|----------|--|
| 295/80R22.5 | 154/149 | M High Load version | n C | В | 69) M+S | TreadMax | 315/80R22.5 | 156/150 (154/150) | L (M) | | В | В | 69) M+S | |

ULTRA GRIP Coach 22.5"



Specific high blade density winter traction drive tyre for long haul and intercity coaches. Decoupled blocks and high tear resistance compound lead to a combination of mileage performance and snow traction.



- · High grip/traction on snowy/icy road
- Extended mileageEven wear profile
- Road handling & lateral stability Stone damage & cut resistances
- Robust shoulder rib

Technical Data



| Size | Load Index | Speed Symbol Comments | | | (C -01) | Size | Load Index | Speed Symbol | Comments | (6 | | |
|-------------|---------------|--------------------------|-----|---|---------------------|-------------|-------------------|-----------------|----------|----|---|------------|
| 295/80R22.5 | 154/149 | M High Load version | n D | С | 72) M+S 🎄 TreadMax | 315/80R22.5 | 156/150 (154/150) | L (M) | | D | С | 73) M+S 🕸 |





ULTRA GRIP MAX S 22.5"





The new ULTRA GRIP MAX S steer tyre provides excellent cornering stability and optimum braking performance on snow and ice, to allow you to face the toughest winter conditions.

Thanks to ULTRA GRIP MAX Technology the ULTRA GRIP MAX S is the ideal choice for fleets looking for winter performance throughout the life of the tyre.

- Improved snow grip throughout tyre life
- 30% more snow grip compared to its predecessor when tyres are half worn*
- o Optimum lateral grip for good cornering stability, especially on snow and ice
- Excellent braking performance on slippery surfaces like snow & ice
- High mileage potential and good carcass resistance
- Strong braking performance on winter roads



Technical Data



| Size | Load Index | Speed Symbol Comments | | Size | Load Index | Speed Symbol | Comments | 6 . |
|-------------|---------------|--------------------------|-------------|---------------|------------------|-----------------|----------|--|
| 315/70R22.5 | 156/150 | L High Load version C B | 73)) M+s ♠ | 315/80R22.5 1 | 56/150 (154/150) | L (M) | | M+S 🙊 |

* Comparative tests made by Goodyear GIC*L on size 315/80R22.5 show that the new Goodyear ULTRA GRIP MAX S offers an improvement in snow grip of up to 30% compared to Goodyear ULTRA GRIP WTS. Actual results may vary based on, but not restricted to, road and weather conditions, tyre size, tyre pressure and vehicle maintenance.

ULTRA GRIP MAX D 22.5"





The new ULTRA GRIP MAX D drive tyre provides traction on snow and ice throughout the tyre life allowing you to still have winter traction capability at Three Peak Mountain Snowflake standard level when the tyre is 50% worn.

Thanks to Goodyear ULTRA GRIP MAX Technology ULTRA GRIP MAX D is the ideal choice for fleets looking for mobility in extreme winter conditions

- o Improved snow grip and mileage
- 40% more snow grip compared to its predecessor when tyres are half worn*
- 15% more mileage compared to its predecessor*
- Even tyre wear with high mileage potential and low noise emission
- o Outstanding traction on slippery surfaces like snow and ice throughout the tyre life
- Improved performance of worn tyre compared to its predecessor
- Excellent tread durability and carcass resistance, improving retreadability compared to its predecessor

Technical Data



| Size | Load Index | Speed Symbol | Comments | (| | | Size | | Load Index | Speed Symbol | Comments | | | Co |) |
|-------------|-------------------|-----------------|----------|----------|---|-----------------|---------|----------|-------------------|-----------------|----------|---|---|------|---------------|
| 315/70R22.5 | 154/150 (152/148) | L (M) | | Ε | С | 74) M+S 🕸 Tread | мåD 315 | /80R22.5 | 156/150 (154/150) | L (M) | | D | В | 73) | M+S A TreadMa |

- * Comparative tests made by Goodyear GIC*L on size 315/80R22.5 show that:

 the new Goodyear ULTRA GRIP MAX D offers an improvement in snow grip of up to 40% compared to Goodyear ULTRA GRIP WTD;

 the new Goodyear ULTRA GRIP MAX D drive tyres offer an improvement in mileage potential of up to 15% compared to Goodyear ULTRA GRIP WTD.
- Actual results may vary based on, but not restricted to, road and weather conditions,, tyre size, tyre pressure and vehicle maintenance.

ULTRA GRIP MAX T 22.5"





The new ULTRAGRIP MAX T trailer tyre provides excellent lateral stability and snow grip, to allow you to face the toughest winter conditions.

The ULTRA GRIP MAX T is the ideal choice for fleets looking for a winter solution for their trailers.



- Resistance against carcass damage and increased mileage potential
- Good grip on slippery surfaces for excellent braking performances on winter roads
- Good lateral stability and even wear
- · Good grip on slippery surfaces for excellent braking capabilities



Technical Data



| Size | Load Index | Speed Symbol | Comments | C *. C ** C ** 0 | Size | Load Index | Speed Symbol | Comments | (°.07°C)) |
|-------------|---------------|-----------------|----------|--|-------------|---------------|-----------------|----------|-----------|
| 385/55B22.5 | 160 (158) | K (I) | | M+SI A | 385/65B22.5 | 160 (158) | K (L) | | M+SI .△ |

ULTRA GRIP WTS 22.5"



The ULTRA GRIP WTS steer axle tyre provides a wide, deep tread pattern, specific "Z" blades and a specific technology tread compound, resulting in excellent mileage and traction and braking on wet, snow and ice roads.

WTS City design includes as well reinforced sidewall for better damage resistance in urban applications.



- · Excellent braking and traction on wet and snow
- Superb lateral grip, handling and steering stability
- High mileage, even wear pattern
- Usable as "all position" fitment

Technical Data



| Size | Load Index | Speed Symbol | | | | (C+1) |
|-------------|----------------------|-----------------|--------------|---|---|---------------|
| 275/70R22.5 | 148 /145 (152 /148) | J (E) | City version | Ε | С | 73)) M+S 🕸 |
| 295/60R22.5 | 150 /147 (149 /146) | K (L) | | С | С | 71) M+S 🕸 |
| 295/80R22.5 | 152 /148 | L | | D | В | 73)) M+S 🕸 |
| 315/60R22 5 | 152 /148 | 1 | | C | R | 73)) M+S & |

| Size | Load Index | Speed Symbol | Comments | | | (C -1)) | |
|-------------|--------------------|-----------------|----------|---|---|----------------|--|
| 315/80R22.5 | 156 /150 (154 /150 |) K (L) | | С | В | 74)) M+S 🕸 | |
| 355/50R22.5 | 154 (152) | K (L) | | D | В | 73)) M+S 🕸 | |
| 385/55R22.5 | 160 (158) | K (L) | | С | В | 73)) M+S 🕸 | |
| 20E/6ED22 E | 160 (150) | K(I) | | C | B | 74)) [8846] 🕸 | |

ULTRA GRIP WTD 22.5"



The ULTRA GRIP WTD drive axle tyre is designed to provide outstanding traction on snowy, icy roads while featuring dedicated technology tread compounds and carcass constructions. The WTD tyre is dedicated for use in severe winter conditions. With a specific blading technology, traction, stability and braking are improved while still providing high mileage performance.

WTD City design includes as well reinforced sidewall for better damage resistance in urban applications.



- Excellent winter traction and braking (snow and ice)
- Superb lateral grip, handling and steering stability
- High mileage, even wear pattern





| Size | Load Index | Speed Symbol | Comments | (6) | d C | |
|-------------|-------------------|-----------------|--------------|-----|-----|-------------|
| 275/70R22.5 | 148/145 (152/148) | J (E) (| City version | Е | D | 73) M+S 🙊 |
| 295/60R22.5 | 150/147 (149/146) | K (L) | | D | С | 74)) M+S 🕸 |
| 295/80B22.5 | 152/148 | 1 | | F | С | 75)) M+s A |

| Size | Load Index | Speed Symbol | Comments | | | (C +0) |
|-------------|-------------------|-----------------|----------|---|---|---------------|
| 315/60R22.5 | 152/148 | L | | Е | D | 74)) M+S 🕸 |
| 315/70R22.5 | 154/150 (152/148) | K (L) | | D | В | 74)) M+S 🕸 |

ULTRA GRIP WTT 22.5"



Goodyear ULTRA GRIP WTT truck tyre range has been developed to cope with today's demanding winter transport operations. This trailer axle tyre features excellent performance in winter conditions, keeping fleet efficiency at maximum level by providing good mileage and all season capability.

The 265/70R19.5 ULTRA GRIP WTT winter trailer tyre complements the steer and drive tyre range, for specific severe winter conditions. The WTT was developed for the use on paved national roads as well as on unpaved and forest roads. The high level of carcass robustness against external damages meets the needs of latter application.



- o 4-rib design for massive rib distribution and excellent damage resistance
- Wide tread width for an extended mileage and a good lateral stability
- Excellent snow / mud traction thanks to staggered blocks and semi-open shoulders



Technical Data



| Size | Load Index | Speed Symbol | Comments | | | (C+01) |
|-------------|---------------|-----------------|----------|---|---|-------------|
| 265/70R19.5 | 143/141 | J | | D | В | 72)) M+S 🕸 |



| | | | | | | | nensions ⁽²⁾ | | | Max | load | | | Rim Data | | | | | L | oad Cap | acity pe | er axel (i | n kg) at | inflation | ı pressı | ure (in b | ar) | | | |
|------------------------------|--------------------|------------------------|------------------------|--------------------|------------------|--------------------|-------------------------|--------------|--------------|--------------|---------------|---|-----------|-------------|--------------|------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|-----------|-------|-------|-------|-------|
| | | | | Additional | Overall Diametre | Overall Section | Static Loaded | Rolling | Nominal | Single | Dual | | | | | | Single / | | | | | | Tyre | pressure i | n har | | | | | |
| Cina | Candusan Danim | | Single Point | Markings / | mm | Width mm | | Circumf. | pressure | Axle load | | | Recomm. | Permitted | Minimal Dual | Load | dual | | | | 0.5 | 7.0 | | | | 0.0 | 0.05 | 0.5 | 0.75 | 0.0 |
| 17.5" sizes - 6 | Goodyear Design | index | marking ⁽¹⁾ | comments | (+/-1.5%) | (+/- 1.5%) | (mm) | (mm) | (bar) | (kg) | (kg) | | Rim width | Rims | spacing | index | mounting | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.25 | 7.5 | 7.75 | 8.0 | 8.25 | 8.5 | 8.75 | 9.0 |
| 205/65R17.5 | RHT II | 129/127 K | (132/132 F) | FRT ⁽³⁾ | 716 | 209 | 334 | 2169 | 9.00 | 3700 | 7000 | | | | | 129 | S | 2310 | 2500 | 2680 | 2850 | 3030 | 3110 | 3200 | 3280 | 3370 | 3450 | 3530 | 3620 | 3700 |
| 200/00/117.0 | 1011 11 | 120/12/1 | (102/1021) | ***** | /10 | 200 | 004 | 2100 | 3.00 | 0700 | 7000 | | 6.00 | 6.00-6.75 | 231 | 127 | D | 4370 | 4720 | 5060 | 5400 | 5730 | 5890 | 6050 | 6210 | 6370 | 6530 | 6690 | 6840 | 7000 |
| 17.5" sizes - 7 | O series | | | | | | | | | | | | | | | | | 1070 | 20 | 0000 | 0.00 | 0.00 | 0000 | 0000 | 0210 | 00.0 | 0000 | 0000 | 0010 | 1000 |
| 245/70R17.5 | RHS II+ | 136/134 M | | | 790 | 258 | 368 | 2411 | 8.50 | 4480 | 8480 | | | | | 143 | S | 3480 | 3760 | 4030 | 4300 | 4560 | 4690 | 4820 | 4950 | 5070 | 5200 | 5330 | 5450 | |
| | RHD II+ | 136/134 M | | | 793 | 256 | 369 | 2421 | 8.50 | 4480 | 8480 | | 7.50 | 6.75-7.50 | 279 | 141 | D | 6580 | 7100 | 7620 | 8120 | 8620 | 8860 | 9100 | 9350 | 9590 | 9830 | 10060 | 10300 | |
| | RHT II | 143/141 J | (146/146 F) | FRT ⁽³⁾ | 795 | 253 | 366 | 2427 | 8.75 | 5450 | 10300 | | 7.50 | 0.75-7.30 | 219 | 136 | S | 2930 | 3160 | 3390 | 3610 | 3840 | 3940 | 4050 | 4160 | 4270 | 4370 | 4480 | | |
| | | | | _ | | | | | | | | | | | | 134 | D | 5550 | 5990 | 6420 | 6840 | 7260 | 7470 | 7670 | 7880 | 8080 | 8280 | 8480 | | |
| 265/70R17.5 | RHS II + | 139/136 M | | | 819 | 265 | 379 | 2500 | 8.00 | 4860 | 8960 | | | | | 139 | S | 3340 | 3600 | 3860 | 4120 | 4370 | 4490 | 4620 | 4740 | 4860 | | | | |
| | RHS II | 139 /136 M | | | 819 | 265 | 379 | 2500 | 8.00 | 4860 | 8960 | | 7.50 | 6.75-8.25 | 295 | 136 | D | 6150 | 6640 | 7120 | 7590 | 8050 | 8280 | 8510 | 8740 | 8960 | | | | |
| 4==" . = | RHD II | 139/136 M | | | 822 | 263 | 380 | 2509 | 8.00 | 4860 | 8960 | | | | | | | | | | | | | | | | | | | |
| 17.5" sizes - 75 | | 104/100 M | | | 701 | 200 | 250 | 2222 | 7.50 | 2200 | 6000 | l | | | | 104 | c | 2210 | 2500 | 0000 | 2050 | 2020 | 2110 | 2200 | | | | | | |
| 205/75R17.5 | RHS II+ RHD II+ | 124/122 M 124/122 M | (126/124 G) | | 761 764 | 209 | 356 358 | 2323 | 7.50 7.50 | 3200 3200 | 6000 | | 6.00 | 5.25-6.75 | 231 | 124 | 5 n | 2310 4340 | 2500 4680 | 2680 | 2850 5350 | 3030 5680 | 3110 5840 | 3200 6000 | | | | | | |
| 215/75R17.5 | RHS II+ HL | 124/122 W | (120/124 0) | High Load | 778 | 215 | 362 | 2375 | 7.50 | 3600 | 6800 | | | | | 122 135 | c | 2850 | 3080 | 5020 3300 | 3520 | 3730 | 3840 | 3940 | 4050 | 4150 | 4260 | 4360 | | |
| 213/731117.3 | RHD II+ | 126/124 M | | riigii Ludu | 780 | 218 | 364 | 2381 | 7.25 | 3400 | 6400 | | | | | 133 | D | 5390 | 5820 | 6240 | 6650 | 7050 | 7260 | 7450 | 7650 | 7850 | 8050 | 8240 | | |
| | RHT II | 135/133 J | | FRT ⁽³⁾ | 769 | 211 | 356 | 2347 | 8.50 | 4360 | 8240 | | | | | 128 | S | 2600 | 2810 | 3010 | 3210 | 3410 | 3500 | 3600 | 1000 | 1000 | 0000 | 0210 | | |
| | | 100/1000 | | | 100 | | 000 | 2011 | 0.00 | 1000 | 0210 | | 6.00 | 6.00-6.75 | 239 | 126 | S | 2530 | 2730 | 2920 | 3120 | 3310 | 3400 | | | | | | | |
| | | | | | | | | | | | | | | | | 126 | D | 4340 | 4680 | 5020 | 5350 | 5680 | 5840 | 6800 | | | | | | |
| | | | | | | | | | | | | | | | | 124 | D | 4750 | 5130 | 5500 | 5860 | 6220 | 6400 | | | | | | | |
| 225/75R17.5 | RHS II | 129/127 M | | | 790 | 235 | 368 | 2411 | 7.25 | 3700 | 7000 | | 6.75 | 6.00-6.75 | 254 | 129 | S | 2750 | 2970 | 3180 | 3390 | 3600 | 3700 | | | | | | | |
| | RHD II | 129/127 M | | | 793 | 235 | 369 | 2421 | 7.25 | 3700 | 7000 | | 0.75 | 0.00-0.75 | 204 | 127 | D | 5200 | 5610 | 6020 | 6410 | 6810 | 7000 | | | | | | | |
| 235/75R17.5 | RHS II | 132/130 M | | | 809 | 239 | 377 | 2469 | 7.75 | 4000 | 7600 | | | | | 143 | S | 3480 | 3760 | 4030 | 4300 | 4560 | 4690 | 4820 | 4950 | 5070 | 5200 | 5330 | 5450 | |
| | RHD II | 132/130 M | | | 810 | 239 | 379 | 2479 | 7.75 | 4000 | 7600 | | 6.75 | 6.75-7.50 | 278 | 141 | D | 6580 | 7100 | 7620 | 8120 | 8620 | 8860 | 9100 | 9350 | 9590 | 9830 | 10060 | 10300 | |
| | RHT II | 143/141 J | (144/144 F) | FRT ⁽³⁾ | 802 | 241 | 369 | 2448 | 8.75 | 5450 | 10300 | | | | | 132 | S | 2820 | 3040 | 3260 | 3470 | 3690 | 3790 | 3900 | 4000 | | | | | |
| 17 E'l oines C | landard Carica | | | | | | | | | | | | | | | 130 | D | 5350 | 5780 | 6190 | 6600 | 7010 | 7210 | 7400 | 7600 | | | | | |
| 17.5" sizes - Si 8.5R17.5 | RHS | 121/120 M | | | 808 | 207 | 376 | 2466 | 6.25 | 2900 | 5600 | | | | | 121 | S | 2430 | 2620 | 2810 | | | | | | | | | | |
| 0.51117.5 | RHD | 121/120 M | | | 805 | 207 | 374 | 2457 | 6.25 | 2900 | 5600 | | 5.25 | 5.25-6.75 | 233 | 120 | D | 4680 | 5060 | 5420 | | | | | | | | | | |
| 9.5R17.5 | RHS II | 129/127 M | | | 847 | 241 | 392 | 2585 | 7.50 | 3700 | 7000 | | | | | 143 | S | 3480 | 3760 | 4030 | 4300 | 4560 | 4690 | 4820 | 4950 | 5070 | 5200 | 5330 | 5450 | |
| 0.0 | RHD II | 129/127 M | | | 855 | 237 | 400 | 2610 | 7.50 | 3700 | 7000 | | 6.00 | 6.00-6.75 | 261 | 141 | D | 6580 | 7100 | 7620 | 8120 | 8620 | 8860 | 9100 | 9350 | 9590 | 9830 | | 10300 | |
| | RHT II | 143/141 J | | FRT ⁽³⁾ | 846 | 246 | 390 | 2582 | 8.75 | 5450 | 10300 | | 0.75 | 0.00.075 | 070 | 129 | S | 2680 | 2890 | 3100 | 3300 | 3500 | 3600 | 3700 | | | | | | |
| | | | | | | | | | | | | | 6.75 | 6.00-6.75 | 270 | 127 | D | 5060 | 5460 | 5860 | 6240 | 6620 | 6810 | 7000 | | | | | | |
| 19.5" sizes - 50 | O Series | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 435/50R19.5 | FUELMAX T | 160 J | | FRT ⁽³⁾ | 920 | 429 | 421 | 2788 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | KMAX T | 160 J | | FRT ⁽³⁾ | 925 | 427 | 423 | 2803 | 9.00 | 9000 | | | 14.00 | 14.00-15.00 | | 160 | S | 5620 | 6070 | 6510 | 6940 | 7360 | 7570 | 7780 | 7990 | 8190 | 8390 | 8600 | 8800 | 9000 |
| | LHT II | 160 J | | FRT ⁽³⁾ | 920 | 429 | 421 | 2788 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| 19.5" sizes - 5 | RHT II | 160 J | | FRT ⁽³⁾ | 925 | 427 | 423 | 2803 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| 265/55R19.5 | LHT | 141/140 J | (142/142 G) | FRT ⁽³⁾ | 783 | 269 | 364 | 2390 | 9.00 | 5150 | 10000 | | | | | 141 | S | 3220 | 3470 | 3720 | 3970 | 4210 | 4330 | 4450 | 4570 | 4690 | 4800 | 4920 | 5040 | 5150 |
| 200/301113.3 | LIII | 141/1403 | (142/142 u) | 1111 | 703 | 203 | 304 | 2000 | 3.00 | 3130 | 10000 | | 8.25 | 8.25 | 297 | 140 | D | 6250 | 6740 | 7230 | 7710 | 8180 | 8410 | 8640 | 8870 | 9100 | 9330 | 9550 | 9780 | |
| 19.5" sizes - 7 | O Series | | | | | | | | | | | | | | | 1.0 | | 0200 | 01.10 | , 200 | | 0.00 | 0110 | | 00.0 | 0.00 | | 0000 | 0.00 | 10000 |
| 245/70R19.5 | RHS II | 136/134 M | | | 849 | 255 | 393 | 2592 | 8.25 | 4480 | 8480 | | 0.75 | 0.75.7.50 | 070 | 141 | S | 3370 | 3640 | 3900 | 4160 | 4410 | 4530 | 4660 | 4780 | 4910 | 5030 | 5150 | | |
| | RHD II | 136/134 M | | | 853 | 255 | 395 | 2604 | 8.25 | 4480 | 8480 | | 6.75 | 6.75-7.50 | 270 | 140 | D | 6540 | 7060 | 7570 | 8070 | 8560 | 8810 | 9050 | 9290 | 9530 | 9760 | 10000 | | |
| | RHT II | 141/140 J | | FRT ⁽³⁾ | 848 | 252 | 389 | 2589 | 8.50 | 5150 | 10000 | | 7.50 | 6.75-7.50 | 287 | 136 | S | 3000 | 3240 | 3470 | 3700 | 3930 | 4040 | 4150 | 4260 | 4370 | 4480 | | | |
| | | | | | | | | | | | | | | | | 134 | D | 5680 | 6130 | 6570 | 7010 | 7440 | 7650 | 7860 | 8070 | 8270 | 8480 | | | |
| 265/70R19.5 | RHS II | 140/138 M | | | 870 | 267 | 404 | 2656 | 7.75 | 5000 | 9440 | | 6.75 | 6.75-8.25 | 295 | | | | | | | | | | | | | | | |
| | MSS II | 143/141 J | (140/138 L) | | 872 | 269 | 405 | 2662 | 8.50 | 5450 | 10300 | | 6.75 | 7.50-8.25 | 295 | 143 | S | 3560 | 3850 | 4120 | 4400 | 4670 | 4800 | 4930 | 5060 | 5190 | 5320 | 5450 | | |
| | RHD II | 140/138 M | | FDT2 | 873 | 267 | 406 | 2665 | 7.75 | 5000 | 9440 | | 6.75 | 6.75-8.25 | 295 | 141 | D | 6740 | 7270 | 7800 | 8310 | 8820 | 9070 | 9320 | 9570 | 9810 | 10060 | 10300 | | |
| | RHT II | 143/141 J | | FRT³ | 866 | 266 | 400 | 2643 2674 | 8.50 9.50 | 5450 5450 | 10300 | | 7.50 | 7.50-8.25 | 295 | 140 | S D | 3520 6650 | 3800 | 4070 7600 | 4340 9200 | 4610 9700 | 4740 9050 | 4870 | 5000 | | | | | |
| | WTT MCA | 143/141 J 140/138 L | | LUIA | 876 873 | 266 271 | 405 406 | 2665 | 8.50 7.75 | 5450 5000 | 10300 9440 | | 7.50 | 6.75-8.25 | 295 | 138 | D | 6650 | 7170 | 7690 | 8200 | 8700 | 8950 | 9200 | 9440 | | | | | |
| | IVIUA | 14U/130 L | | | 0/3 | 2/1 | 400 | 2000 | 1.10 | 5000 | 9440 | | 7.30 | 0.70-0.20 | 290 | | | | | | | | | | | | | | | |

⁽¹⁾ Additional Service Description based on UNECE Regulation N° 54 located on the sidewall of the tyre in a circle close to the principal service Description. Load/speed variations do not apply to the additional Service Description.

⁽²⁾ Measured tyre dimension using the Goodyear recommended rim.

⁽³⁾ FRT = "Free Rolling Tyre": this tyre may only be fitted on a trailer or tag axle and not on a drive or steer axle.

 $^{^{(4)}}$ HCT = Hot Climate Technology: Tyre made with specific technical features to cope with special conditions in hot climate countries.

| | | | | | | Tyre Dim | ensions ⁽²⁾ | | | Max | load | l | | Rim Data | | | | | L | oad Cap | acity pe | r axel (i | in kg) at | inflatio | n pressı | ıre (in ba | ar) | | | |
|------------------|------------------|------------------------|----------------------------|--------------------|------------------|--------------------|------------------------|--------------|--------------|--------------|----------------|---|-----------|-------------|-----------------|-----|----------|-------|-------|---------|----------|-----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | Additional | Overall Diametre | Overall Section | Static Loaded | Rolling | Nominal | Single | Dual | | | | | | Single / | | | | | | Tyro | pressure i | in har | | | | | |
| | | Load / Speed | | Markings / | mm | Width mm | Radius | Circumf. | pressure | Axle load | Axle load | | Recomm. | Permitted | Minimal Dual | | dual | | | | | | | | | | | | | |
| Size | Goodyear Design | index | marking ⁽¹⁾ | comments | (+/-1.5%) | | (mm) | (mm) | (bar) | (kg) | (kg) | | Rim width | Rims | spacing | _ | mounting | | 5.5 | 6.0 | 6.5 | 7.0 | 7.25 | 7.5 | 7.75 | 8.0 | 8.25 | 8.5 | 8.75 | 9.0 |
| 285/70R19.5 | RHS II | 146/144 L | (144/142 M) | | 897 | 291 | 413 | 2738 | 9.00 | 6000 | 11200 | - | 8.25 | 7.50-9.00 | 311 | 150 | 5 | 4190 | 4520 | 4840 | 5160 | 5480 | 5640 | 5790 | 5940 | 6100 | 6250 | 6400 | 6550 | 6700 |
| | RHD II | 146/144 L | (144/142 M) | FDT(3) | 903 | 291 | 416 | 2756 | 9.00 | 6000 | 11200 | | | | | 148 | D | 7870 | 8500 | 9110 | 9710 | 10310 | 10600 | 10890 | 11180 | 11470 | 11750 | 12040 | 12320 | 12600 |
| | RHT II | 150/148 J | | FRT ⁽³⁾ | 892 | 289 | 410 | 2723 | 9.00 | 6700 | 12600 | | 8.25 | 8.25-9.00 | 318 | 146 | 5 | 3750 | 4050 | 4340 | 4620 | 4910 | 5050 | 5190 | 5320 | 5460 | 5600 | 5730 | 5870 | 6000 |
| 20F/70D10 F | DITC II | 1 40/1 45 M | | | 007 | 000 | 400 | 0000 | 0.50 | 0000 | 11000 | | | | | 144 | D | 7000 | 7550 | 8100 | 8630 | 9160 | 9420 | 9680 | 9940 | 10190 | 10450 | | 10950 | 11200 |
| 305/70R19.5 | RHS II | 148/145 M | | | 927 | 290 | 428 | 2830 | 8.50 | 6300 | 11600 | - | 8.25 | 8.25-9.00 | 318 | 148 | S D | 4120 | 4450 | 4770 | 5080 | 5390 | 5550 | 5700 | 5850 | 6000 | 6150 | 6300 | | |
| 20" sizes - 85 S | RHD II | 148/145 M | | | 931 | 290 | 430 | 2842 | 8.50 | 6300 | 11600 | | | | | 145 | U | 7590 | 8190 | 8780 | 9360 | 9930 | 10210 | 10490 | 10770 | 11050 | 11330 | 11000 | | |
| 365/85R20 | ORD | 164 J | | | 1124 | 358 | 511 | 3465 | 8.00 | 10000 | | | 10.00 | 10.00 | | 164 | S | 6870 | 7410 | 7940 | 8470 | 8990 | 9240 | 9500 | 9750 | 10000 | | | | |
| 20" sizes - Stan | | 104 J | | | 1124 | 300 | 311 | 3403 | 0.00 | 10000 | | | 10.00 | 10.00 | | 104 | 3 | 0070 | 7410 | 7940 | 04/0 | 0990 | 9240 | 9000 | 9730 | 10000 | | | | |
| 12.00R20 | MSS II | 154/150 K | | | 1126 | 313 | 526 | 3437 | 8.50 | 7500 | 13400 | | | | | 154 | S | 4910 | 5290 | 5680 | 6050 | 6420 | 6600 | 6790 | 6970 | 7140 | 7320 | 7500 | | |
| 12.001120 | MSD II | 154/150 K | | | 1133 | 313 | 530 | 3458 | 8.50 | 7500 | 13400 | - | 8.50 | 7.50-9.00 | 360 | 150 | n | 8760 | 9460 | 10140 | 10810 | 11470 | 11800 | | | | | | | |
| 14.00R20 | ORD | 164/160 J | (166/160 G) | | 1258 | 377 | 573 | 3840 | 7.50 | 10000 | 18000 | | | | | 164 | S | 7230 | 7800 | 8370 | 8920 | 9460 | 9730 | 10000 | 12430 | 12770 | 13000 | 13400 | | |
| 14.001120 | UND | 104/100 J | (100/100 u) | | 1230 | 311 | 3/3 | 3040 | 7.50 | 10000 | 10000 | | 10.00 | 9.00-10.00 | 426 | 160 | D | | 14040 | | 16050 | | | 18000 | | | | | | |
| 22.5" sizes - 45 | Series | | | | | | | | | | | | | | | 100 | U | 10010 | 17070 | 10000 | 10000 | 11000 | 11020 | 10000 | | | | | | |
| 455/45R22.5 | MCD | 166 J | | | 985 | 450 | 449 | 2985 | 9.00 | 10600 | | | 15.00 | 15.00 | | 166 | S | 6620 | 7150 | 7660 | 8170 | 8670 | 8920 | 9160 | 9400 | 9650 | 9890 | 10130 | 10360 | 10600 |
| 495/45R22.5 | LHD | 169 K | | | 1018 | 505 | 471 | 3085 | 9.00 | 11600 | 11600 | | 10.00 | | | 100 | U | 0020 | 7.100 | , 500 | 0110 | 0010 | 0020 | 0.00 | 0 100 | 0000 | 0000 | 10100 | 10000 | 10000 |
| 430/40/ILL.0 | MSD II | 169 K | | | 1020 | 502 | 466 | 3091 | 9.00 | 11600 | 11600 | 1 | 17.00 | 16.00-17.00 | | 169 | S | 7250 | 7820 | 8390 | 8940 | 9490 | 9760 | 10030 | 10290 | 10560 | 10820 | 11080 | 11340 | 11600 |
| 22.5" sizes - 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 355/50R22.5 | KMAX S HL | 156 K | | | | | | | 9.00 | 8000 | | | | | | | | | | | | | | | | | | | | |
| | LHS II+ HL | 156 K | (152 L) | | 933 | 354 | 432 | 2866 | 9.00 | 8000 | | 1 | | | | 156 | S | 5000 | 5390 | 5780 | 6170 | 6540 | 6730 | 6910 | 7100 | 7280 | 7460 | 7640 | 7820 | 8000 |
| | LHS II+ | 154 K | (152 L) | | 932 | 356 | 432 | 2824 | 9.00 | 7500 | | 1 | 11.75 | 11.75 | | 154 | S | 4690 | 5060 | 5420 | 5780 | 6130 | 6310 | 6480 | 6650 | 6830 | 7000 | 7160 | 7330 | 7500 |
| | WTS | 154 K | (152 L) | | 935 | 359 | 433 | 2833 | 9.00 | 7500 | | 1 | | | | | | | | | | | | | | | | | | |
| 375/50R22.5 | LHS II | 156 K | | | 951 | 366 | 440 | 2882 | 9.00 | 8000 | | | 11.75 | 11.75-12.15 | | 156 | S | 5000 | 5390 | 5780 | 6170 | 6540 | 6730 | 6910 | 7100 | 7280 | 7460 | 7640 | 7820 | 8000 |
| 22.5" sizes - 55 | Series | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 295/55R22.5 | KMAX D | 147/145 K | | | | | | | | 6150 | 11600 | | 0.00 | 0.00.0.75 | 000 | 147 | S | 3840 | 4150 | 4450 | 4740 | 5030 | 5170 | 5320 | 5460 | 5600 | 5740 | 5880 | 6010 | 6150 |
| | LHD II+ | 147/145 K | | | 886 | 290 | 413 | 2685 | 9.00 | 6150 | 11600 | 1 | 9.00 | 9.00-9.75 | 329 | 145 | D | 7250 | 7820 | 8390 | 8940 | 9490 | 9760 | 10030 | 10290 | 10560 | 10820 | 11080 | 11340 | 11600 |
| 385/55R22.5 | FUELMAX S | 160 K | (158 L) | | 989 | 387 | 456 | 3034 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | LHS II+ | 160 K | (158 L) | | 994 | 384 | 456 | 3012 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | WTS | 160 K | (158 L) | | 995 | 386 | 457 | 3015 | 9.00 | 9000 | |] | | | | | | | | | | | | | | | | | | |
| | MSD II | 160 K | | | 996 | 386 | 457 | 3018 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | FUELMAX T | 160 K | (158 L) | FRT ⁽³⁾ | 989 | 386 | 455 | 3019 | 9.00 | 9000 | | | 11.75 | 11.75-12.25 | | 160 | S | 5620 | 6070 | 6510 | 6940 | 7360 | 7570 | 7780 | 7990 | 8190 | 8390 | 8600 | 8800 | 9000 |
| | KMAX T | 160 K | (158 L) | FRT ⁽³⁾ | 995 | 387 | 457 | 3015 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | LHT II | 160 K | (158 L) | FRT ⁽³⁾ | 989 | 388 | 455 | 3019 | 9.00 | 9000 | | _ | | | | | | | | | | | | | | | | | | |
| | RHT II | 160 K | (158 L) | FRT ⁽³⁾ | 995 | 387 | 457 | 3015 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | UG MAX T | 160 K | (158 L) | FRT ⁽³⁾ | 995 | 386 | 457 | 3015 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| 22.5" sizes - 60 | | /: // | (1.15(1.15)) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 295/60R22.5 | FUELMAX S | 150/147 K | (149/146 L) | | 924 | 290 | 429 | 2833 | 9.00 | 6700 | 12300 | | | | | | | | | | | | | | | | | | | |
| | KMAX S | 150/147 K | (149/146 L) | | 927 | 285 | 432 | 2841 | 9.00 | 6700 | 12300 | | | | | | | | | | | | | | | | | | | |
| | LHS II | 150/147 K | (149/146 L) | | 928 | 292 | 429 | 2812 | 9.00 | 6700 | 12300 | _ | | | | | | | | | | | | | | | | | | |
| | RHS II | 150/147 K | (149/146 L) | | 927 | 293 | 429 | 2809 | 9.00 | 6700 | 12300 | | | | | 450 | • | 44.00 | 4500 | 10.10 | 5400 | F.100 | 5040 | | | | | | | |
| | WTS | 150/147 K | (149/146 L) | | 928 | 291 | 429 | 2812 | 9.00 | 6700 | 12300 | | 9.00 | 9.00-9.75 | 329 | 150 | S | 4190 | 4520 | 4840 | 5160 | 5480 | 5640 | 5790 | 5940 | 6100 | 6250 | 6400 | 6550 | 6700 |
| | FUELMAX D | 150/147 K | (149/146 L) | | 933 | 290 | 434 | 2863 | 9.00 | 6700 | 12300 | | | | | 147 | D | 7690 | 8290 | 8890 | 9480 | 10060 | 10350 | 10630 | 10910 | 11190 | 11470 | 11/50 | 12030 | 12300 |
| | KMAX D LHD II | 150/147 K | (149/146 L) | | 937 | 288 | 435 | 2858 | 9.00 | 6700 | 12300 | - | | | | | | | | | | | | | | | | | | |
| | | 150/147 K | (149/146 L) | | 938 | 292 | 434 | 2842 | 9.00 | 6700 | 12300 | - | | | | | | | | | | | | | | | | | | |
| | RHD II WTD | 150/147 K 150/147 K | (149/146 L) (149/146 L) | | 937 940 | 293 296 | 434 | 2839 2848 | 9.00 9.00 | 6700 6700 | 12300 12300 | - | | | | | | | | | | | | | | | | | | |
| 315/60R22.5 | FUELMAX S HL | 150/147 K | (149/140 L) | High Load | 940 | 307 | 433 | 2923 | 9.00 | 7500 | 12600 | | | | | | | | | | | | | | | | | | | |
| 31J/UUNZZ.3 | KMAX S HL | 154/148 L | | High Load | 952 | 307 | 440 | 2923 | 9.00 | 7500 | 12600 | - | | | | | | | | | | | | | | | | | | |
| | WTS | 152/148 L | | High Load | 958 | 307 | 441 | 2903 | 9.00 | 7100 | 12600 | - | | | | 154 | ç | 4690 | 5060 | 5420 | 5780 | 6130 | 6310 | 6400 | CCEO | 6000 | 7000 | 7100 | 7000 | 7500 |
| | FUELMAX D | 152/148 L | | | 965 | 310 | 444 | 2903 | 9.00 | 7100 | 12600 | - | 9.00 | 9.00-9.75 | 344 | 152 | ς | 4440 | 4790 | 5130 | 5470 | 5810 | 5970 | 6480 6140 | 6650 6300 | 6830 6460 | 7000 6620 | 7160 6780 | 7330 6940 | 7500 7100 |
| | KMAX D | 152/148 L | | | 968 | 308 | 450 | 2961 | 9.00 | 7100 | 12600 | 1 | 5.00 | 3.00-3.13 | J 44 | 148 | o D | 7870 | | | 9710 | | | | | 11470 | | | | 12600 |
| | WTD | 152/148 L | | | 970 | 309 | 450 | 2939 | 9.00 | 7100 | 12600 | | | | | 170 | J | 1010 | 3000 | 3110 | 0110 | 10010 | 10000 | | | • | | | | |
| | MCA | 152/148 J | | | 963 | 316 | 446 | 2918 | 9.00 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | |
| | mort | 102/1700 | | | 000 | 010 | TTU | 2010 | 0.00 | 7100 | 12000 | | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Additional Service Description based on UNECE Regulation N° 54 located on the sidewall of the tyre in a circle close to the principal service Description. Load/speed variations do not apply to the additional Service Description.

⁽²⁾ Measured tyre dimension using the Goodyear recommended rim.

⁽³⁾ FRT = "Free Rolling Tyre": this tyre may only be fitted on a trailer or tag axle and not on a drive or steer axle.

 $^{^{(4)}}$ HCT = Hot Climate Technology: Tyre made with specific technical features to cope with special conditions in hot climate countries.

| | | | | | Tyre Dimensions ⁽²⁾ | | | | | Max | load | | Rim Data | | | Load Capacity per axel (in kg) at inflation pressure (in bar) | | | | | | | | | | | | | | |
|-------------------------------------|-----------------|--------------------|-------------------------|---|--------------------------------|------------------------|------------------|------------------|-------------------|--------|-------------------|--|-------------------|-------------------|----------------------|---|----------|------|------|------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|
| | Goodyear Design | | | Additional | Overall Diametre | Overall Section | Static Loaded | Rolling | Nominal | Single | Dual | | | | | | Single / | | | | | | Turo | pressure ir | n har | | | | | |
| Size | | Load / Speed index | Single Point marking(1) | t Markings / | mm | Width mm (+/- 1.5%) | Radius | Circumf. (mm) | pressure (bar) | · | Axle load (kg) | | ecomm. m width | Permitted Rims | Minimal Dual spacing | Load | dual - | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | | | | 8.0 | 8.25 | 8.5 | 8.75 | 9.0 |
| 22.5" sizes - 68 | | | | | (0,000) | (1) | (******) | (contra) | (541) | (13) | (**3) | | | | opaning . | | 9 | | | | | | | | | | | | | |
| 385/65R22.5 | FUELMAX S | 160 K | (158 L) | | 1074 | 380 | 499 | 3278 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | KMAX S | 160 K | (158 L) | | 1078 | 379 | 500 | 3299 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | LHS II+ | 160 K | (158 L) | | 1077 | 377 | 499 | 3263 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | RHS II | 160 K | (158 L) | | 1077 | 377 | 499 | 3263 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | WTS | 160 K | (158 L) | | 1082 | 382 | 498 | 3278 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | MSS II | 160 K | (158 L) | | 1078 | 380 | 499 | 3266 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | FUELMAX T | 160 K | (158 L) | FRT ⁽³⁾ | 1072 | 388 | 497 | 3248 | 9.00 | 9000 | | | 11.75 | 11.75-12.25 | | 164 | S | 6250 | 6740 | 7230 | 7710 | 8180 | 8410 | 8640 | 8870 | 9100 | 9330 | 9550 | 9780 | 10000 |
| | KMAX T | 160 K | (158 L) | FRT ⁽³⁾ | 1081 | 388 | 502 | 3275 | 9.00 | 9000 | | | 11.70 | 11.70 12.20 | | 160 | S | 5620 | 6070 | 6510 | 6940 | 7360 | 7570 | 7780 | 7990 | 8190 | 8390 | 8600 | 8800 | 9000 |
| | KMAX T HL | 164 K | (158 L) | FRT ⁽³⁾ /High Load | | 386 | 498 | 3281 | 9.00 | 10000 | | | | | | | | | | | | | | | | | | | | |
| | LHT II | 160 K | (158 L) | FRT ⁽³⁾ | 1072 | 388 | 497 | 3248 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | RHT II HCT | 160 K | (158 L) | FRT ⁽³⁾ / HCT ⁽⁴⁾ | 1081 | 388 | 503 | 3303 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | MST II | 160 K | (158 L) | FRT ⁽³⁾ | 1085 | 387 | 504 | 3288 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | MST II HCT | 160 K | (158 L) | FRT ⁽³⁾ /HCT ⁽⁴⁾ | 1085 | 387 | 504 | 3288 | 9.00 | 9000 | | | | | | | | | | | | | | | | | | | | |
| | UG MAX T | 160 K | (158 L) | FRT ⁽³⁾ | 1082 | 382 | 498 | 3278 | 9.00 | 9000 | | | 10.00 | | | | • | | | =000 | | | | | | 100=0 | | | | |
| 425/65R22.5 | KMAX T | 165 K | | EDT(2) | 1128 | 419 | 517 | 3418 | 8.25 | 10300 | | | 13.00 | 12.25-14.00 | | 165 | S | 6900 | 7450 | 7980 | 8510 | 9030 | 9290 | 9540 | 9800 | 10050 | 10300 | | | |
| 445/65R22.5 | KMAX T | 169 K | | FRT ⁽³⁾ | 1157 | 437 | 529 | 3506 | 9.00 | 11600 | | | 13.00 | 13.00-14.00 | | 169 | S | 7250 | 7820 | 8390 | 8940 | 9490 | 9760 | 10030 | 10290 | 10560 | 10820 | 11080 | 11340 | 11600 |
| 00 Ell oines - 70 | MST II | 169 K | | FRT ⁽³⁾ | 1159 | 434 | 530 | 3512 | 9.00 | 11600 | | | 14.00 | 13.00-15.00 | | | | | | | | | | | | | | | | |
| 22.5" sizes - 70 275/70R22.5 | RHS II | 148/145 M | | | 966 | 274 | 447 | 2949 | 9.00 | 6300 | 11600 | | | | | | | | | | | | | | | | | | | |
| 213/101122.3 | WTS CITY | 148/145 J | (152/148 E) | | 979 | 271 | 459 | 2988 | 9.00 | 6300 | 11600 | | | | | | | | | | | | | | | | | | | |
| | MSS II | 148/145 K | (132/140 L) | | 973 | 275 | 455 | 2970 | 9.00 | 6300 | 11600 | | | | | 152 | S | 4440 | 4790 | 5130 | 5470 | 5810 | 5970 | 6140 | 6300 | 6460 | 6620 | 6780 | 6940 | 7100 |
| | MCA HL | 150/145 J | (152/148 E) | High Load | 972 | 273 | 457 | 2976 | 9.00 | 6700 | 11600 | | | | | 150 | S | 4190 | 4520 | 4840 | 5160 | 5480 | 5640 | 5790 | 5940 | 6100 | 6250 | 6400 | | 6700 |
| | MCA | 148/145 J | (152/148 E) | | 976 | 271 | 457 | 2979 | 9.00 | 6300 | 11600 | | 7.50 | 7.50-8.25 | 303 | 148 | S | 3940 | 4250 | 4550 | 4860 | 5150 | 5300 | 5440 | 5590 | 5730 | 5880 | 6020 | | 6300 |
| | RHD II | 148/145 M | (102/1102) | | 972 | 272 | 455 | 2967 | 9.00 | 6300 | 11600 | | | | | 148 | D | 7870 | 8500 | 9110 | 9710 | 10310 | 10600 | 10890 | 11180 | 11470 | 11750 | 12040 | | 12600 |
| | MCD | 148/145 J | (152/148 E) | | 976 | 276 | 459 | 2985 | 9.00 | 6300 | 11600 | | | | | 145 | D | 7250 | 7820 | 8390 | 8940 | 9490 | 9760 | 10030 | 10290 | 10560 | 10820 | | | 11600 |
| | WTD CITY | 148/145 J | (152/148 E) | | 977 | 268 | 458 | 2982 | 9.00 | 6300 | 11600 | | | | | | | | | | | | | | | | | | | |
| | LHT II | 152/148 J | (148/145 L) | | 963 | 273 | 451 | 2940 | 9.00 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | |
| 305/70R22.5 | RHS II | 153/150 L | (150/148 M) | | 1000 | 298 | 462 | 3053 | 9.00 | 7300 | 13400 | | | | | 153 | S | 4560 | 4920 | 5280 | 5630 | 5970 | 6140 | 6310 | 6480 | 6640 | 6810 | 6970 | 7140 | 7300 |
| | MCS* | 152/148 J | (154/150 E) | | 1008 | 301 | 462 | 3077 | 9.00 | 7100 | 12600 | | 0.05 | 0.05.0.00 | 004 | 152 | S | 4440 | 4790 | 5130 | 5470 | 5810 | 5970 | 6140 | 6300 | 6460 | 6620 | 6780 | 6940 | 7100 |
| | RHD II | 153/150 L | (150/148 M) | | 1010 | 295 | 471 | 3083 | 9.00 | 7300 | 13400 | | 8.25 | 8.25-9.00 | 334 | 150 | D | 8370 | 9040 | 9690 | 10330 | 10960 | 11270 | 11580 | 11890 | 12200 | 12500 | 12800 | 13100 | 13400 |
| | | | | | | | | | | | | | | | | 148 | D | 7870 | 8500 | 9110 | 9710 | 10310 | 10600 | 10890 | 11180 | 11470 | 11750 | 12040 | 12320 | 12600 |
| 315/70R22.5 | FUELMAX S HL | 156/150 L | | High Load | 1009 | 311 | 467 | 3086 | 9.00 | 8000 | 13400 | | | | | | | | | | | | | | | | | | | |
| | KMAX S HL | 156/150 L | | High Load | 1015 | 314 | 470 | 3103 | 9.00 | 8000 | 13400 | | | | | | | | | | | | | | | | | | | |
| | RHS II | 154/150 L | (152/148 M) | | 1015 | 314 | 471 | 3098 | 9.00 | 7500 | 13400 | | | | | | | | | | | | | | | | | | | |
| | UG MAX S HL | 156/150 L | | High Load | 1014 | 314 | 468 | 3092 | 9.00 | 7500 | 13400 | | | | | 156 | S | 5000 | 5390 | 5780 | 6170 | 6540 | 6730 | 6910 | 7100 | 7280 | 7460 | 7640 | 7820 | 8000 |
| | FUELMAX D | 154/150 L | (152/148 M) | | 1013 | 312 | 471 | 3100 | 9.00 | 7500 | 13400 | | 9.00 | 9.00-9.75 | 351 | 154 | S | 4690 | 5060 | 5420 | 5780 | 6130 | 6310 | 6480 | 6650 | 6830 | 7000 | 7160 | 7330 | 7500 |
| | KMAX D | 154/150 L | (152/148 M) | | 1021 | 313 | 475 | 3110 | 9.00 | 7500 | 13400 | | | | | 150 | D | 8370 | 9040 | 9690 | 10330 | 10960 | 11270 | 11580 | 11890 | 12200 | 12500 | 12800 | 13100 | 13400 |
| | RHD II+ | 154/150 L | (152/148 M) | | 1019 | 315 | 471 | 3110 | 9.00 | 7500 | 13400 | | | | | | | | | | | | | | | | | | | |
| | UG MAX D | 154/150 L | (152/148 M) | | 1018 | 312 | 469 | 3090 | 9.00 | 7500 | 13400 | | | | | | | | | | | | | | | | | | | |
| | WTD | 154/150 K | (152/148 L) | | 1025 | 314 | 472 | 3129 | 9.00 | 7500 | 13400 | | | | <u></u> | | | | | | | | | | | | | | | |
| 22.5" sizes - 75 | | 470/ 1 | | FDT ⁽²⁾ | 4000 | 154 | F00 | 0770 | 0.00 | 10000 | | | 14.00 | 40.00 44.00 | | 470 | 0 | 0040 | 0000 | 0500 | 10100 | 10700 | 11000 | 44.400 | 44700 | 40000 | | | | |
| 445/75R22.5 | MSS | 170/ J | | FRT ⁽³⁾ | 1236 | 451 | 566 | 3773 | 8.00 | 12000 | | | 14.00 | 13.00-14.00 | | 170 | S | 8240 | 8890 | 9530 | 10160 | 10780 | 11090 | 11400 | 11700 | 12000 | | | | |

⁽¹⁾ Additional Service Description based on UNECE Regulation N° 54 located on the sidewall of the tyre in a circle close to the principal service Description. Load/speed variations do not apply to the additional Service Description.

⁽²⁾ Measured tyre dimension using the Goodyear recommended rim.

⁽³⁾ FRT = "Free Rolling Tyre": this tyre may only be fitted on a trailer or tag axle and not on a drive or steer axle.

 $^{^{(4)}}$ HCT = Hot Climate Technology: Tyre made with specific technical features to cope with special conditions in hot climate countries.

| | | | | | | Tyre Dime | ensions ⁽²⁾ | | | Max | load | | Rim Data | | | | | Lo | oad Cap | acity pe | r axel (i | n kg) at | inflation | n pressu | re (in ba | ır) | | | |
|------------------|----------------------|------------------------|------------------------|--------------------|---------------------|--------------------|------------------------|--------------|--------------|--------------|----------------|-----------|-----------|--------------|-------|----------|------|------|---------|----------|-----------|----------|------------|----------|-----------|-------|-------|------------------|--|
| | | | | Additional | Overall Diametre | Overall Section | Static Loaded | Rolling | Nominal | Single | Dual | | | | | Single / | | | | | | - | | | | | | | |
| | | Load / Speed | Single Point | Markings / | mm | Width mm | | Circumf. | pressure | 1 | | Recomm. | Permitted | Minimal Dual | Load | • | | | | | | lyre | pressure i | n bar | | | | | |
| Size | Goodyear Design | index | marking ⁽¹⁾ | comments | (+/-1.5%) | (+/- 1.5%) | (mm) | (mm) | (bar) | (kg) | (kg) | Rim width | Rims | spacing | index | mounting | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.25 | 7.5 | 7.75 | 8.0 | 8.25 | 8.5 | 8.75 9.0 | |
| 22.5" sizes - 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 295/80R22.5 | FUELMAX S HL | 154/149 M | | High Load | 1048 | 302 | 488 | 3198 | 8.50 | 7500 | 13000 | 9.00 | 8.25-9.00 | 335 | | | | | | | | | | | | | | | |
| | KMAX S HL | 154/149 M | | High Load | 1057 | 302 | 491 | 3217 | 8.50 | 7500 | 13000 | 0.00 | 0.20 0.00 | | | | | | | | | | | | | | | | |
| | LHS II | 152/148 M | , | | 1053 | 299 | 489 | 3214 | 8.50 | 7100 | 12600 | 8.25 | | | | | | | | | | | | | | | | | |
| | RHS II | 152/148 M | | CCC | 1054 | 298 | 489 | 3217 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| | RHS II HCT | 152/148 M | | HCT ⁽⁴⁾ | 1052 | 295 | 491 | 3211 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| | WTS | 152/148 L | | | 1056 | 294 | 489 | 3223 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| | MSS II | 152/148 K | | | 1057 | 300 | 491 | 3226 | 8.50 | 7100 | 12600 | | | | 154 | S | 4910 | 5290 | 5680 | 6050 | 6420 | 6600 | 6790 | 6970 | 7140 | | 7500 | | |
| | LHS LR8 | 152/148 M | | LR8 | 1047 | 295 | 484 | 3196 | 8.50 | 7100 | 12600 | | | | 152 | S | 4640 | 5010 | 5370 | 5730 | 6080 | 6250 | 6420 | 6590 | 6760 | | 7100 | | |
| | MARATHON COACH | 154/149 M | | High Load | 1050 | 299 | 486 | 3205 | 8.50 | 7500 | 13000 | | 8.25-9.00 | 326 | 149 | D | 8500 | 9180 | 9840 | 10490 | 11130 | 11450 | 11760 | 12070 | 12380 | | 13000 | | |
| | MCA | 152/148 J | (154/150 E) | | 1061 | 198 | 494 | 3239 | 8.50 | 7100 | 12600 | | | | 148 | D | 8240 | 8890 | 9540 | 10170 | 10790 | 11090 | 11400 | 11700 | 12000 | 12300 | 12600 | | |
| | FUELMAX D | 152/148 M | | | 1054 | 305 | 490 | 3210 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| | KMAX D | 152/148 M | | HOT(A) | 1065 | 305 | 496 | 3227 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| | RHD II HCT | 152/148 M | , | HCT ⁽⁴⁾ | 1062 | 296 | 495 | 3242 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| | ULTRA GRIP COACH | 154/149 M | | High Load | 1061 | 298 | 492 | 3239 | 8.50 | 7500 | 13000 | | | | | | | | | | | | | | | | | | |
| | WTD | 152/148 L | | | 1064 | 297 | 494 | 3248 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| 045/000005 | MSD II | 152/148 K | (4 E 4 /4 E 0 MA) | | 1065 | 298 | 497 | 3251 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | |
| 315/80R22.5 | FUELMAX S | 156/150 L | (154/150 M) | | 1080 | 313 | 501 | 3294 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | KMAX S LHS II+ HL | 156/150 L 158/150 L | (154/150 M) | High Load | 1084 1080 | 313 316 | 502 | 3298 3297 | 8.50 9.00 | 8000 8500 | 13400 13400 | | | | | | | | | | | | | | | | | | |
| | LHS | 156/150 L | (154/150 M) | HIGH LUAU | 1096 | 318 | 499 501 | 3315 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | RHS II HL | 158/150 L | (134/130 WI) | High Load | 1080 | 317 | 501 | 3297 | 9.00 | 8500 | 13400 | | | | | | | | | | | | | | | | | | |
| | RHS II | 156/150 L | (154/150 M) | CCC | 1080 | 317 | 501 | 3297 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | RHS II | 156/150 L | (154/150 M) | 000 | 1080 | 317 | 501 | 3297 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | RHS | 156/150 L | (154/150 M) | | 1096 | 318 | 498 | 3297 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | RHS II HCT | 156/150 L | (154/150 M) | HCT ⁽⁴⁾ | 1081 | 317 | 502 | 3300 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | WTS | 156/150 K | (154/150 L) | 1101 | 1083 | 316 | 500 | 3306 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | MSS II | 156/150 K | (104/100 L) | | 1086 | 316 | 502 | 3315 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | MSS II HCT | 156/150 K | | | 1000 | 010 | | 0010 | 8.50 | 8000 | 13400 | | | | 158 | S | 5310 | 5730 | 6150 | 6550 | 6950 | 7150 | 7350 | 7540 | 7740 | 7930 | 8120 | 8310 8500 | |
| | ORS | 156/150 K | | | 1085 | 315 | 502 | 3312 | 8.50 | 8000 | 13400 | 9.00 | 9.00-9.75 | 351 | 156 | S | 5230 | 5650 | 6050 | 6450 | 6850 | 7040 | 7240 | 7430 | 7620 | | 8000 | | |
| | UG MAX S | 156/150 L | (154/150 M) | | 1086 | 315 | 495 | 3300 | 8.50 | 8000 | 13400 | | | | 150 | D | 8760 | 9460 | 10140 | 10810 | 11470 | 11800 | 12120 | 12450 | 12770 | 13080 | 13400 | | |
| | MARATHON COACH | 156/150 L | (154/150 M) | | 1081 | 315 | 500 | 3300 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | FUELMAX D | 156/150 L | (154/150 M) | | 1083 | 315 | 502 | 3297 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | KMAX D | 156/150 L | (154/150 M) | | 1094 | 313 | 510 | 3307 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | LHD II | 156/150 L | (154/150 M) | | 1087 | 316 | 503 | 3318 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | RHD II | 156/150 L | (154/150 M) | | 1091 | 307 | 505 | 3330 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | RHD II HCT | 156/150 L | (154/150 M) | HCT ⁽⁴⁾ | 1091 | 307 | 505 | 3330 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | ULTRA GRIP COACH | 156/150 L | (154/150 M) | | 1093 | 314 | 506 | 3336 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | UG MAX D | 156/150 L | (154/150 M) | | 1090 | 314 | 496 | 3289 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | MSD II HCT | 156/150 K | , | HCT ⁽⁴⁾ | 1095 | 306 | 507 | 3342 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |
| | MSD II | 156/150 K | | | 1094 | 316 | 506 | 3339 | 8.50 | 8000 | 13400 | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Additional Service Description based on UNECE Regulation N° 54 located on the sidewall of the tyre in a circle close to the principal service Description. Load/speed variations do not apply to the additional Service Description.

⁽²⁾ Measured tyre dimension using the Goodyear recommended rim.

⁽³⁾ FRT = "Free Rolling Tyre": this tyre may only be fitted on a trailer or tag axle and not on a drive or steer axle.

 $^{^{(4)}}$ HCT = Hot Climate Technology: Tyre made with specific technical features to cope with special conditions in hot climate countries.

| | | | | | | Tyre Dim | | | | Max | load | | | Rim Data | | | | | Load Capacity per axel (in kg) at inflation pressure (in bar) | | | | | | | | | | | | |
|----------------------|-----------------|--------------------|-------------------------------------|---------------------|---------------------|---------------------|------------------|------------------|-------------------|-------------------|-------------------|-------|---------------|-------------------|----------------------|--------|----------|-------|---|-------|--------|-------|-------|------------|-------|--------|-------|-------|-------|-----|--|
| | | | | Additional | Overall Diametre | Overall Section | Static Loaded | Rolling | Nominal | Single | Dual | | | | | | Single / | | | | | | Tyre | pressure i | n bar | | | | | | |
| Size Goodyear Design | Goodyear Decign | Load / Speed index | Single Point marking ⁽¹⁾ | Markings / comments | mm (+/-1.5%) | Width mm (+/- 1.5%) | Radius (mm) | Circumf. (mm) | pressure (bar) | Axle load (kg) | Axle load (kg) | | omm. width | Permitted Rims | Minimal Dual spacing | | dual | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7 25 | 7.5 | 7 75 | 8.0 | g 25 | 8.5 | 8.75 | 9.0 | |
| 22.5" sizes - S | <u> </u> | IIIucx | marking | Comments | (+7-1.570) | (17-1.570) | (IIIII) | (IIIII) | (bai) | (Kg) | (Kg) | Tuili | Widui | Tullis | Spacing | IIIUUX | mounting | 5.0 | 0.0 | 0.0 | 0.5 | 7.0 | 1.25 | 1.5 | 1.13 | 0.0 | 0.23 | 0.0 | 0.75 | 3.0 | |
| 11R22.5 | RHS II | 148/145 L | (146/145 M) | | 1058 | 274 | 492 | 3230 | 8.50 | 6300 | 11600 | | | | | | | | | | | | | | | | | | | | |
| THEE.J | MSS | 148/145 K | (140/140 III) | | 1059 | 274 | 492 | 3233 | 8.50 | 6300 | 11600 | | | | | | | | | | | | | | | | | | | | |
| | MCA | | (152/148 E) | | 1065 | 284 | 499 | 3251 | 8.50 | 6300 | 11600 | | | | | 148 | S | 4120 | 4450 | 4770 | 5080 | 5390 | 5550 | 5700 | 5850 | 6000 | 6150 | 6300 | | | |
| | RHD II | 148/145 L | (102/1102) | | 1064 | 275 | 497 | 3248 | 8.50 | 6300 | 11600 | 7. | .50 | 7.50-8.25 | 305 | 145 | D | 7590 | 8190 | 8780 | 9360 | 9930 | 10210 | 10490 | | 11050 | 11330 | | | | |
| | RHD | 148/145 L | | | 1070 | 274 | 497 | 3266 | 8.50 | 6300 | 11600 | | | | | | _ | | | | | | | | | | | | | | |
| | LHT | | (146/143 L) | FRT ⁽³⁾ | 1054 | 275 | 492 | 3217 | 8.50 | 6300 | 11600 | | | | | | | | | | | | | | | | | | | | |
| 12R22.5 | RHS II | 152/148 L | (/ | | 1083 | 296 | 502 | 3306 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | | |
| | RHS II HCT | 152/148 L | | HCT ⁽⁴⁾ | 1085 | 287 | 507 | 3321 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | | |
| | RHS | 152/148 L | | | 1084 | 299 | 503 | 3309 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | | |
| | MSS II | 152/148 K | | | 1091 | 298 | 508 | 3330 | 8.50 | 7100 | 12600 | | | | | 152 | S | 4640 | 5010 | 5370 | 5730 | 6080 | 6250 | 6420 | 6590 | 6760 | 6930 | 7100 | | | |
| | RHD II | 152/148 L | | | 1091 | 299 | 509 | 3330 | 8.50 | 7100 | 12600 | 8. | .25 | 8.25-9.00 | 329 | 148 | D | 8240 | 8890 | 9540 | 10170 | 10790 | 11090 | 11400 | 11700 | 12000 | 12300 | 12600 | | | |
| | RHD II HCT | 152/148 L | | HCT ⁽⁴⁾ | 1094 | 287 | 509 | 3330 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | | |
| | MSD II HCT | 152/148 K | | HCT ⁽⁴⁾ | 1095 | 294 | 512 | 3342 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | | |
| | ORD | 152/148 J | | | 1102 | 296 | 512 | 3364 | 8.50 | 7100 | 12600 | | | | | | | | | | | | | | | | | | | | |
| 13R22.5 | RHS II | 156/150 L | (154/150 M) | | 1120 | 318 | 519 | 3419 | 8.75 | 8000 | 13400 | | | | | | | | | | | | | | | | | | | | |
| | MSS II | 156/150 K | | | 1130 | 314 | 525 | 3449 | 8.75 | 8000 | 13400 | | | | | | | | | | | | | | | | | | | | |
| | MSS II HCT | 156/150 K | | HCT ⁽⁴⁾ | | | | | 8.75 | 8000 | 13400 | | | | | 156 | S | 5110 | 5520 | 5920 | 6310 | 6690 | 6880 | 7070 | 7260 | 7450 | 7630 | 7820 | 8000 | | |
| | MSS | 156/150 K | | | 1131 | 317 | 522 | 3452 | 8.75 | 8000 | 13400 | | .00 | 9.00-9.75 | 351 | 150 | D | 8560 | 9240 | 9910 | 10560 | 11210 | 11530 | 11850 | 12160 | 12470 | 12780 | 13090 | 13400 | | |
| | RHD II | 156/150 L | (154/150 M) | | 1134 | 316 | 526 | 3462 | 8.75 | 8000 | 13400 | 9. | .00 | 9.00-9.75 | 331 | | | | | | | | | | | | | | | | |
| | MSD II | 156/150 K | | | 1139 | 314 | 530 | 3477 | 8.75 | 8000 | 13400 | | | | | | | | | | | | | | | | | | | | |
| | MSD II HCT | 156/150 K | | HCT ⁽⁴⁾ | | | | | 8.75 | 8000 | 13400 | | | | | | | | | | | | | | | | | | | | |
| | ORD | 156/150 G | (154/150 J) | | 1140 | 319 | 533 | 3480 | 8.75 | 8000 | 13400 | | | | | | | | | | | | | | | | | | _ | | |
| 22.5" sizes - 9 | O Series | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 375/90R22.5 | MSS | 164 G | | | 1244 | 376 | 571 | 3797 | 7.50 | 10000 | | 11 | .75 | 10.5-11.75 | | 164 | S | 7230 | 7800 | 8370 | 8920 | 9460 | 9730 | 10000 | | | | | | | |
| | ORD | 164 G | | | 1262 | 392 | 580 | 3852 | 7.50 | 10000 | | " | .13 | 10.5-11.75 | | 104 | J | 1230 | 7000 | 0370 | 0320 | 3400 | 3130 | 10000 | | | | | | | |
| 24" sizes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.00R24 | MSS II | 160/156 K | | | 1219 | 315 | 566 | 3694 | 8.50 | 9000 | 16000 | | | | | | | | | | | | | | | | | | | | |
| | MSS * | 160/156 K | | | 1219 | 314 | 567 | 3721 | 8.50 | 9000 | 16000 | 8 | .50 | 8.50-9.00 | 360 | 160 | S | 5890 | 6350 | 6810 | 7260 | 7710 | 7920 | 8140 | 8360 | 8570 | 8790 | 9000 | | | |
| | MSD II | 160/156 K | | | 1232 | 315 | 572 | 3733 | 8.50 | 9000 | 16000 | | | 0.50-9.00 | 550 | 156 | D | 10470 | 11290 | 12110 | 12910 | 13700 | 14090 | 14480 | 14860 | 15240 | 15620 | 16000 | | | |
| | ORD | 160/156 G | | | 1235 | 312 | 571 | 3770 | 7.75 | 9000 | 16000 | | | | | | | | | | | | | | | | | | | | |
| 325/95R24 | MSS II | 162/160 K | | | 1220 | 312 | 564 | 3724 | 8.50 | 9500 | 18000 | | | | | 162 | S | 6210 | 6710 | 7190 | 7670 | 7670 | 8130 | 8360 | 8590 | 8820 | 9050 | 9280 | 9500 | | |
| | MSD II | 162/160 K | | | 1229 | 312 | 570 | 3752 | 8.50 | 9500 | 18000 | 9. | .00 | 8.50-10.00 | 374 | 160 | D | | | | | | | | | | 17580 | | | | |
| | ORD | 162/160 G | | | 1233 | 319 | 571 | 3764 | 8.50 | 9500 | 18000 | | | | | 160 | b | | 12/10 | 10020 | 1 1020 | 10110 | 10000 | 10200 | 10/20 | 11 100 | 11000 | 10000 | | | |

⁽¹⁾ Additional Service Description based on UNECE Regulation N° 54 located on the sidewall of the tyre in a circle close to the principal service Description. Load/speed variations do not apply to the additional Service Description.

⁽²⁾ Measured tyre dimension using the Goodyear recommended rim.

⁽³⁾ FRT = "Free Rolling Tyre": this tyre may only be fitted on a trailer or tag axle and not on a drive or steer axle.

 $^{^{(4)}}$ HCT = Hot Climate Technology: Tyre made with specific technical features to cope with special conditions in hot climate countries.



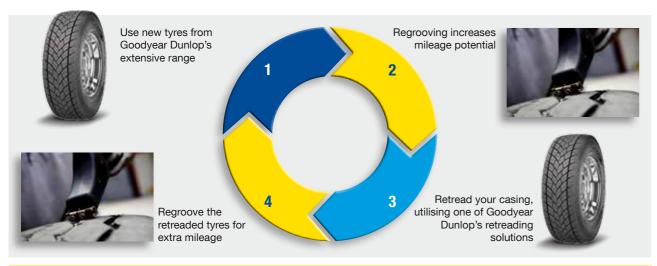
Retread Information Why retreading?





Retreading gives a tyre multiple lives

New Goodyear Dunlop tyres feature high quality casings, produced with the latest technology and materials, and an intelligent construction. Excellent durability and damage resistance properties further add to their performance. Thanks to these features, Goodyear Dunlop tyres last longer, plus tyre life does not need to end after it is worn! Our new tyres are made as an ideal basis for regrooving and retreading.

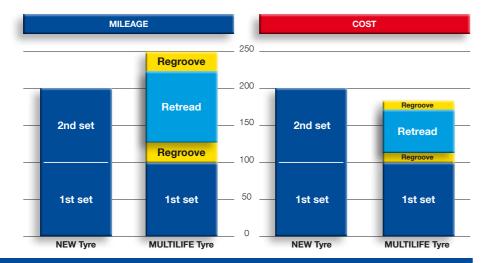




Retreads substantially reduce operating costs

When compared to buying new tyres again after the first lifecycle of a new tyre, retreading and regrooving offers a substantial cost reduction. On the one hand, the price of a Goodyear Dunlop retreaded tyre lies between 50% and 70% than that of a new tyre.

On the other hand, it increases mileage. Moreover, by using more retreads, increasing the retread ratio and increasing the use of suitable cases of worn tyres, fleets can reduce their overall annual operational costs even further.





Goodyear Dunlop Retread performance is similar to new tyres

It may come as a surprise that the performance of Goodyear Dunlop retreaded tyres is similar to that of new tyres. However, knowing that the team that develops Goodyear Dunlop's new tyres, also develops the retreads, and that the design and profile of retreads is identical to the new tyre, it simply makes sense.

Moreover, the compound used is carefully selected to ensure top-level performance, as you can expect from any premium Goodyear Dunlop product.

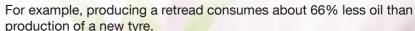






Retreading has a positive impact on the environment

Prolonging the lifespan of a tyre by retreading has a positive impact on the environment in several ways. Retreads use fewer raw materials, produce less waste (both during manufacturing and because casings are re-used) and mean less energy waste.





Regrooving Guidelines

Depending on conditions of use and maintenance, Goodyear's high-quality tyre casings can give each tyre multiple lives (new, regrooved, retread, regrooved retread) lowering operating costs.

Regrooving basics

- 1. A regrooved tyre is a tyre, either new or retreaded, on which the tread pattern has been renewed or a new tread pattern has been produced by cutting into the tread deeper than the original moulded groove depth.
- 2. The regrooving of truck tyres should be entrusted solely to fully trained operators.
- 3. Only proven regrooving tools with electrically heated blades should be used.
- 4. A minimum of remaining undertread rubber is essential to avoid damage at the top breaker belt, groove cracking and/ or stone damage.
- 5. If regrooved according to the recommendations outlined in this manual, Goodyear tyres can, in principle, be mounted on all wheel positions. However, since it has become standard practice for users to normally fit new tyres on front axles, the regrooved tyres will usually be mounted on the rear axles or trailer positions.
- 6. Tyres which are heavily damaged in the tread area (e.g. rib tearing, multiple cutting and chipping) should not be regrooved but retreaded.

All tyres that are marked 'Regroovable' in the sidewall areas have extra undertread thickness for regrooving purposes.

Regrooving recommendations

- 1. Under NO circumstances should the tyre be completely worn before regrooving. It is strongly recommended to regroove when 3 to 6 mm of the original design is still left.
- 2. Determine the blade setting depth for each individual tyre as follows:
- a) Measure the remaining groove depth AT THE POINT OF LOWEST TREAD DEPTH;
- b) Set the blade in the cutter head to the 'minimum remaining groove depth' + 3 mm maximum regrooving depth. This will maintain a 3 mm gauge under the regrooved tread.
- 3. While regrooving, hold the cutter so that the underside of the cutting head is flush against the tread surface.
- 4. The maximum regrooving depth for all Goodyear tyres is 3 mm.
- 5. If the wear is irregular, probing of the remaining undertread gauge is necessary to ensure that 3 mm of undertread will remain after regrooving.

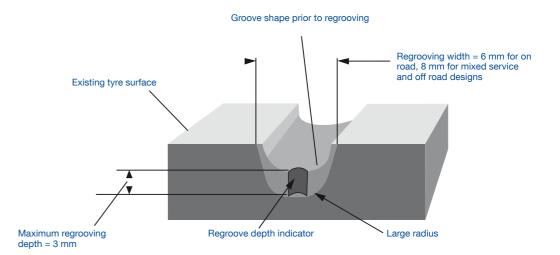
Regrooving Goodyear remould tyres

Provided that the retreading process is on Goodyear casings carried out by Goodyear Authorised Retreader, Goodyear remould tyres may be regrooved to the same pattern as the new tyre, with a maximum regrooving depth of 3 mm.

Regrooving parametres

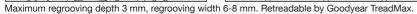
Regroove Goodyear truck tyres when there is still sufficient tread depth. Suggested remaining tread depths are: 3-4 mm for regular highway use; 5-6 mm in operating conditions where penetration damage is likely.

Regrooving depth indicators are moulded into the tyre design. They allow regrooving tools to be set to the optimum depth.

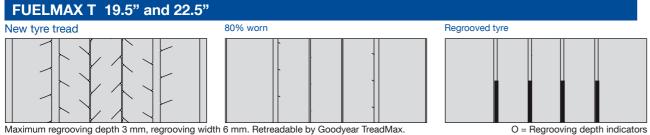


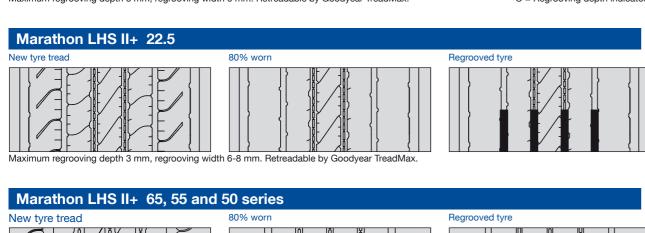
On Road Fuel Efficient

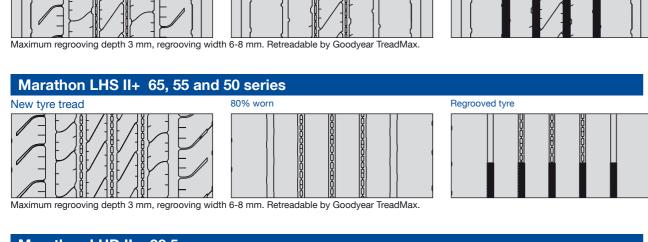
FUELMAX S 22.5" New tyre tread 80% worn Regrooved tyre

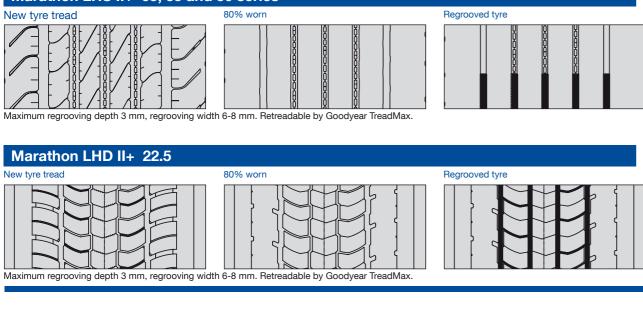




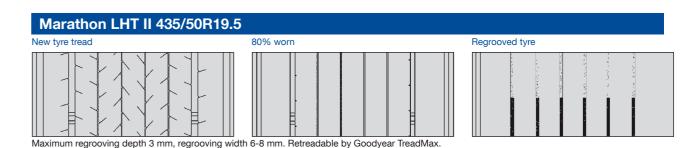




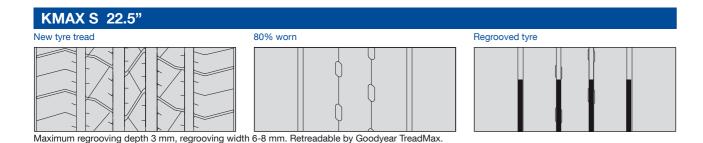




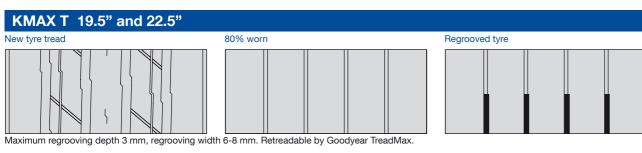
Marathon LHT II 22.5 New tyre tread 80% worn Regrooved tyre Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

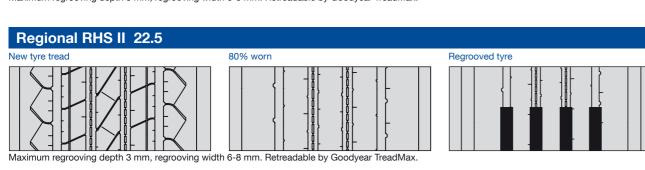


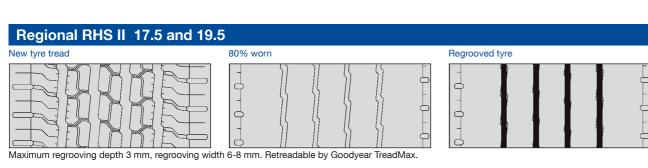
On Road Mileage

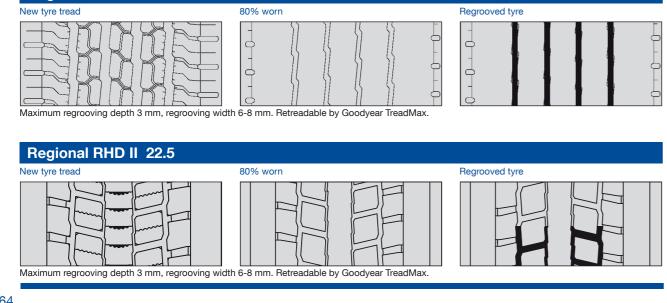












65 64

Regional RHD II 17.5 and 19.5

Regional RHT II 22.5"

Regional RHT II 17.5" and 19.5"

Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

Maximum regrooving depth 2.5 mm, regrooving width 8-10 mm. Retreadable by Goodyear TreadMax.

80% worn

Regrooved tyre

Regrooved tyre

Regrooved tyre

New tyre tread

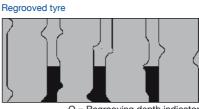
Mixed Services

Omnitrac MSS II 4 ribs

New tyre tread



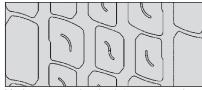
80% worn

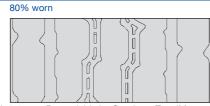


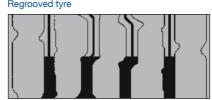
Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

O = Regrooving depth indicators

Omnitrac MSS II 5 ribs

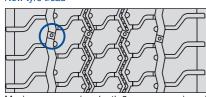


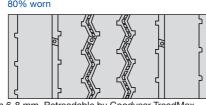


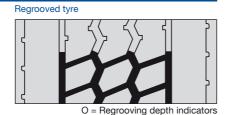


Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

Omnitrac MSS 375/90R22.5 and 445/75R22.5

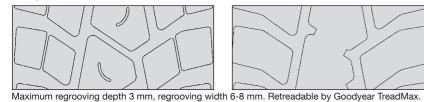




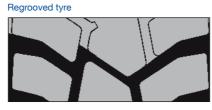


Omnitrac MSD II 20", 22.5" and 24"

New tyre tread

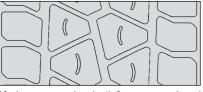




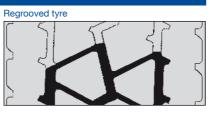


Omnitrac MSD II 385/55R22.5

New tyre tread

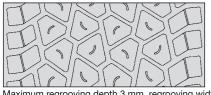




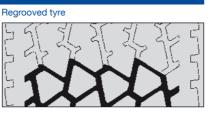


Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

Omnitrac MSD II 495/45R22.5



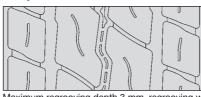




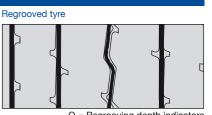
Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

Omnitrac MST II 22.5"

New tyre tread





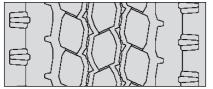


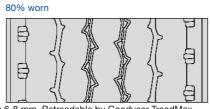
Maximum regrooving depth 3 mm, regrooving width 8 mm. Retreadable by Goodyear TreadMax.

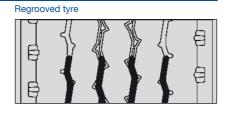
Offroad

Offroad ORS 22.5"

New tyre tread







Offroad ORD 22.5" and 24"





Regrooved tyre



Maximum regrooving depth 3 mm, regrooving width 8-10 mm. Retreadable by Goodyear TreadMax.

Offroad ORD 365/85R20 and 375/90R22.5

New tyre tread



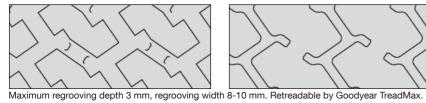


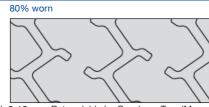


Maximum regrooving depth 3 mm, regrooving width 8-10 mm. Retreadable by Goodyear TreadMax.

Offroad ORD 14.00R20

New tyre tread



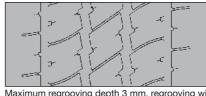


Regrooved tyre

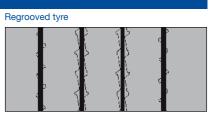
Urban

UrbanMax MCA 19.5" and 22.5"

New tyre tread

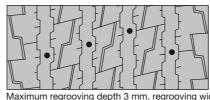


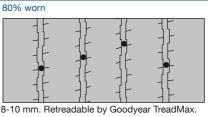


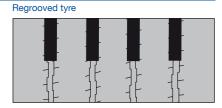


Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

UrbanMax MCS 22.5"



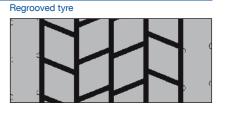




UrbanMax MCD Traction 22.5"



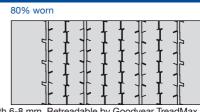


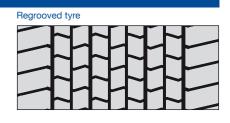


Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

UrbanMax MCD Super Single 22.5"







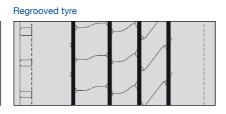
Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

Coach

Marathon Coach 22.5"

New tyre tread

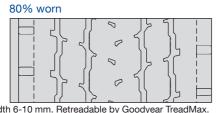




Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

ULTRA GRIP Coach 22.5"

New tyre tread



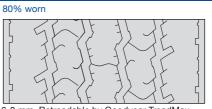
Regrooved tyre

Maximum regrooving depth 3 mm, regrooving width 6-10 mm. Retreadable by Goodyear TreadMax.

Winter

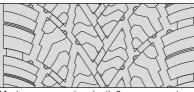
ULTRA GRIP MAX S 22.5"







ULTRA GRIP MAX D 22.5"

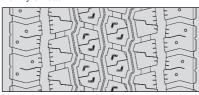


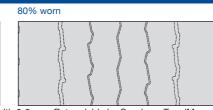


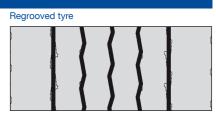


Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

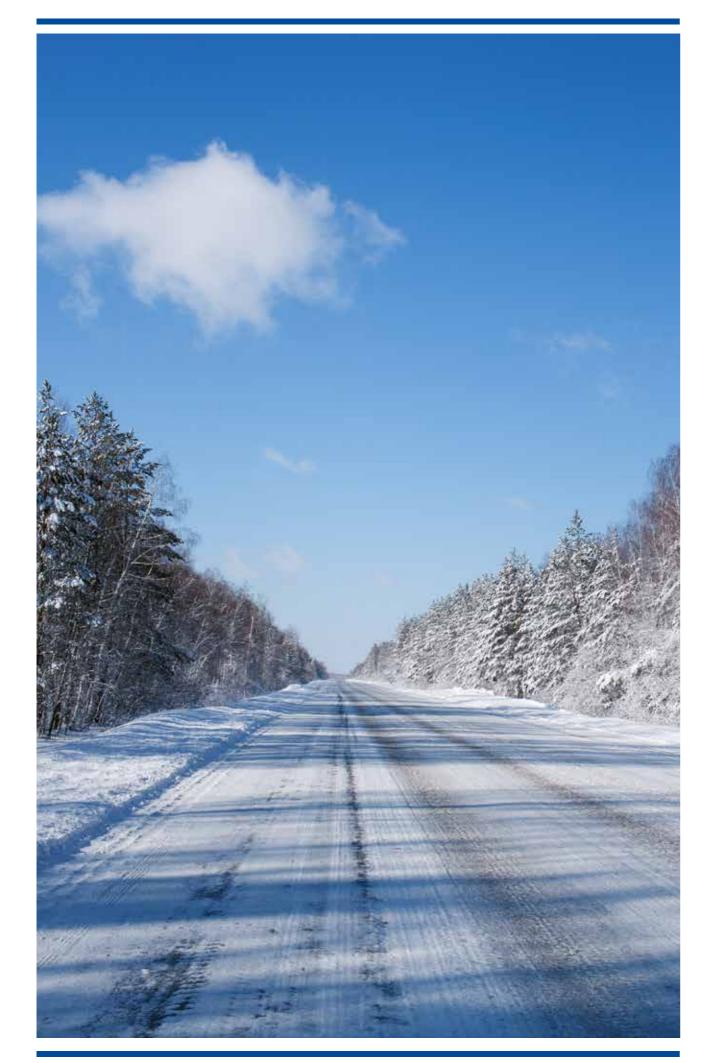
ULTRA GRIP MAX T 22.5"







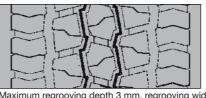
Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

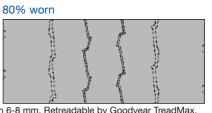


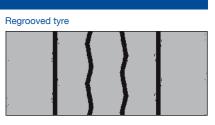
Winter

UltraGrip WTS 5-rib

New tyre treac



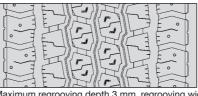


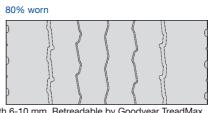


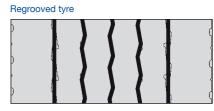
Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.

UltraGrip WTS 6-rib

ew tyre tread



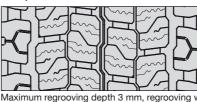


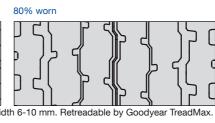


Maximum regrooving depth 3 mm, regrooving width 6-10 mm. Retreadable by Goodyear TreadMax.

UltraGrip WTD 22.5"

New tyre tread

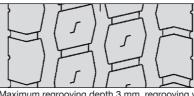


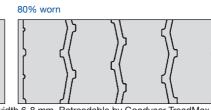


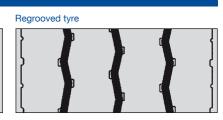


UltraGrip WTT 22.5"

ew tyre tread







Maximum regrooving depth 3 mm, regrooving width 6-8 mm. Retreadable by Goodyear TreadMax.



Tyre construction and tyre terminology

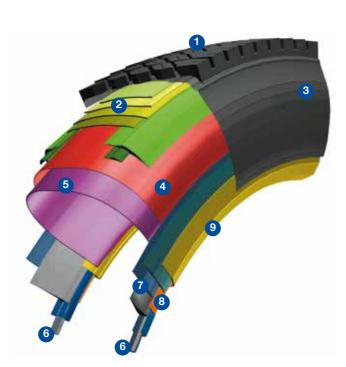
Truck tyres are a high value investment whose performance potential can be dramatically influenced by a multitude of service parametres - which can be globally identified as operating and maintenance conditions. In other words, the true cost per kilometre is not only a function of the tyre quality and price, but is primarily a direct consequence of the actual running conditions of the tyre. In order to be able to optimise these conditions, it is essential to first of all be familiar with the construction characteristics of a tyre and to understand its mechanical properties.

It will also be advisable to have a basic knowledge of vehicle dynamics and to recognise the importance of environmental factors such as road design and ambient temperature.

This brochure is designed to convey these elementary rules and quidelines and to therefore help minimise fleet operating expenses. For further clarifications and updated facts and figures, please consult with your Goodyear truck tyre specialist.

Tyre construction

The commercially available tyre is a composite product, made up from rubber compounds and textile, steel synthetic reinforcements. The major components of the Goodyear radial ply, steel carcass and belt tyre are described below.



Tube-Type

Features

- Belt Package
- Sidewall
- Bead Bundle
- **Apexes**
- Chipper Chafer
- 10 Tube
- 11 Flap*
- * Only applicable to tube type tyres

NOTE: Whilst every care has been taken in the production of this publication, no responsibility can be accepted for any loss or damage arising out of undetected errors or mis-printing which may have occurred

Tyre terminology

Tread

Provides primarily traction and wear and protects the carcass underneath.

Multiple, low angle, steel cord layers provide strength to the tyre, stabilise the tread and prevent penetrations into the

Sidewall

Provides protection for the ply and withstands flexing and weathering.

The radial (90°) ply transmits all load, braking and steering forces between the wheel and the road and withstands the burst loads of the tyre under operating pressure.

A layer of rubber in tubeless tyres specially compounded to prevent loss of air.

Bead bundle

The steel bead bundle properly seats and seals the tyre on the rim and maintains it in position.

Rubber filler in the bead and lower sidewall area to provide progressive transition from the stiff bead area into the

Chafer

A layer of hard rubber that resists erosion of the bead zone by the rim flange.

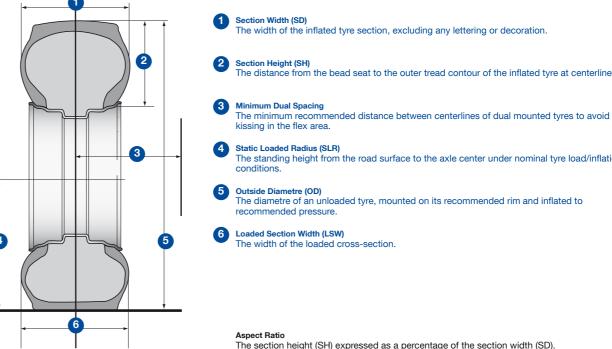
A separate air chamber, compounded to prevent loss of air, inserted into tube-type tyres.

A rubber band placed between tube and rim. Protects the tube from chafing and prevents damage to the tube by the

*Only applicable to tube type tyres.

Tyre dimension definitions

Tyre companies throughout the world are members of regional tyre manufacturers associations (ETRTO for Europe), which establish tyre dimensions and tolerances, load carrying capacities and inflation pressures for the different tyre categories and sizes. The basic tyre and rim dimension nomenclature is explained below.



The width of the inflated tyre section, excluding any lettering or decoration.

The distance from the bead seat to the outer tread contour of the inflated tyre at centerline.

The standing height from the road surface to the axle center under nominal tyre load/inflation

The diametre of an unloaded tyre, mounted on its recommended rim and inflated to

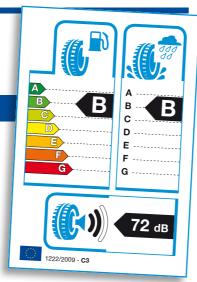
The section height (SH) expressed as a percentage of the section width (SD)

Truck Tyre Label

What is it?

Thanks to new legislation, commercial vehicle operators are to be helped in choosing their tyres. Tyre labeling, which the European Union introduces on 1st November 2012, will ensure that tyres sold in the EU are accompanied by data related to their fuel efficiency, wet grip and exterior noise.

Clear and informative, the label information resembles that on existing energy efficiency labels with A being the highest performing and G the lowest.



Label values shown are for illustrative purposes only.

Values for a certain tyre line/size may vary.

What does change?

Dealers have to provide information about the tyre label to the buyer at the time of purchase.

This can be done in two different ways:

- · By including the information on the receipt
- By handing over a separate note

What does it mean?



FUEL EFFICIENCY /
ROLLING RESISTANCE
A = Most fuel efficient tyre
F = Least fuel efficient tyre
(Class G will not be used for truck tyres)

A rolling tyre deforms and dissipates energy, and is one of the resistive forces acting on a vehicle. The energy that is lost in this way is known as 'rolling resistance' and directly impacts on fuel consumption and the environment. With lower rolling resistance the tyre deformation requires less energy, less fuel and, in turn, less CO2 is emitted. A win-win situation.

Effects may vary according to the vehicle and driving conditions. However, the difference between a complete set of new A-class and F-class tyres could reduce a truck's fuel consumption by up to 15%.*



WET GRIP / BRAKING A = Shortest braking distance F = Longest braking distance (Class G will not be used for truck tyres Tyres with excellent grip in the wet have shorter braking distances on slippery roads, essential for safety.

Effects may vary according to the vehicle, driving conditions and test method adopted. However, in the case of full braking, the difference between A-class and F-class tyres could be up to 30% shorter braking distance. This means for a typical truck driving at 80 km/h up to 25 m shorter braking distance.**

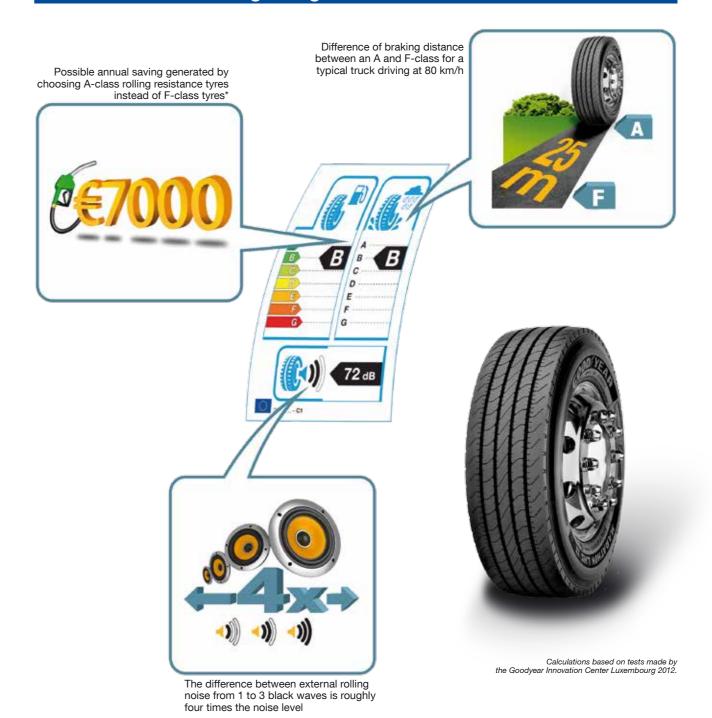




NOISE EMISSION / EXTERIOR NOISE Measured in decibels (dB) Three classes A tyre's exterior noise grading is expressed in decibels (dB) and accompanied by one, two or three sound waves on the label.

One wave corresponds to the quietest tyre, three to the noisiest. In fact, three waves is the current limit, while two meets future laws and one is a further 3dBs below. The quieter the tyre the more environmental-friendly it is.

Benefits of the labeling at a glance



Not the full story. What's not covered?

While we're completely in favour of the introduction of tyre labeling, it's essential to remember that it doesn't tell customers everything they need to know. So while it's a great starting point for customers to get information that is comparable, reliable and objective, it's by no means exhaustive. After all, tyres are more than simply black and round; they're a complex piece of engineering. It's therefore important to look at the bigger picture.

- Tyre labeling only covers fuel efficiency, wet grip and exterior noise.
- Key criteria such as mileage performance, traction and retreadability are not covered.
- · Winter conditions are not taken into consideration.

^{*} Calculations based on tests made by the Goodyear Innovation Center Luxembourg 2012. For more details see verso.

^{**} The calculation is based on a typical truck with semi-trailer operating at 40 tonnes GTW.

^{*}The calculation is based on the following assumption: Average fuel consumption of vehicle 32.3I/100km → 323I/100km → 14.7% potential savings = 47.5I less fuel consumption per 1000 km → fuel price 1.50 EUR/liter = 71.25 EUR/100km → 100.000 km mileage/year = 7.125 EUR savings/year.

Tyre markings

Size markings

There are various forms of tyre size marking and these differ in order to differentiate between tyre types. The size markings should be treated the same as a part number on a vehicle, so the motorist should ensure that the tyres on his vehicle carry the precise markings indicated in the vehicle handbook or are an approved alternative fitment.

Service description

In accordance with the European regulation (ECE-R54), all tyres intended for commercial vehicles will be marked with a "Service Description" located near to the tyre size marking. This consists of a code which indicates operating limits of load and speed and includes a "load index" for single and dual tyre fitment and a "speed symbol" (e.g. 156/150 L).

An additional marking may be used to show the corresponding tyre loads for an alternative higher speed or for an alternative higher load. This additional marking will be placed in a circle.

Free Rolling Tyre (FRT)

'FRT' stands for 'Free Rolling Tyre' and is a legal marking according to the UNECE Regulation No. 54, which indicates that the tyre is specifically designed and intended for the equipment of trailer axles and axles of motor vehicles other than front steering and all drive axles.

Therefore these trailer tyres marked 'FRT' should be used exclusively on trailer axles and axles of motor vehicles other than front steering and all drive axles and should not be fitted in any other position.

Goodyear Dunlop will not warrant and cannot be held accountable for any potential liability claim involving FRT tyres fitted outside these recommendations.



Winter tyre markings: M+S and 3PMSF



M+S (also M.S. or M&S) has been the widely used marking on winter tyres, stipulated in EU legislation.¹

On 1 November 2012 Regulation 117 made a new marking official in the EU – **the "Alpine" symbol**, or the three-peak-mountain with snowflake ("3PMSF"). Unlike the M+S marking, the 3PMSF can only be legally used if the tyre passes a minimum performance threshold requirement on snow, the so called "snow grip index".



However, M+S remains as a permitted marking, but not legally linked to a minimum guaranteed performance in winter conditions. M+S tyres have better snow traction than regular tyres but do not necessarily pass the snow grip threshold legal requirement to qualify for the new three-peak snowflake identification.

Most of Goodyear Dunlop truck and bus tyres are marked with the **M+S** symbol and some of them already qualify for the new **3PMSF** marking.



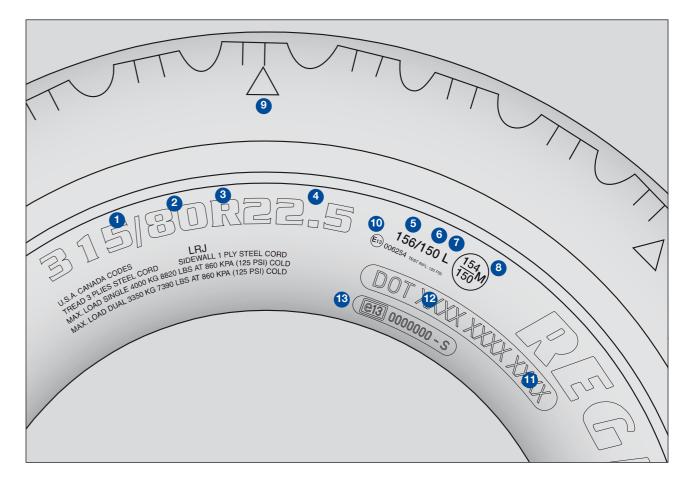
¹ Council Directive 92/23/EEC of 31 March 1992 relating to tyres for motor vehicles and their trailers and to their fitting.

Size definitions

Listed below are the size designations that are being used on truck tyres. With each size is an explanation of what each component describes.

22 5 152/148

| | | | | 22.0 | 102/170 | |
|-------------------------------|---|-----------------------|---------------|-----------------------------------|---|----------------------|
| Section width in inches | | | R-radial | Rim diametre in inches | Load index (single/dual mounted) | Speed symbol |
| 295 Section width in mm | / | 80 Aspect ratio | R R-radial | 22.5 Rim diametre in inches | 152/148 Load index (single/dual mounted) | Speed symbol |
| 365 Section width | / | 80 Aspect ratio | R-radial | 20.0 Rim diametre in inches | 160 Load index (single/dual mounted) | J Speed symbol |



The position of the major tyre markings are as shown;

- 1 Tyre Section width (mm or inches)
- 2 Aspect ratio SH / SD
- 3 Radial construction (R=Radial)
- 4 Rim Diametre (inches)
- 5 Load Index (Max. load per tyre single tyre)
- 6 Load Index (Max. load per tyre dual mounted)
- 7 Speed Symbol
- 8 Alternative load indices when used with alternative speed
- 9 TWI Tread Wear Indicator
- 10 ECE Homologation number
- Date code (week, year)
- 12 DOT Manufacturing Code
- Noise number indicates that the tyre conforms to ECE noise regulations

USA and Canada

In accordance with US Safety Regulation MVSS 109 for Car tyres, and 119 for Truck tyres, the maximum load of the tyre in pounds (LBS) and its corresponding air pressure in pounds per square inch (PSI) must be shown on the tyre.

Additionally, the tyre must be marked D.O.T. (Department of Transportation) to insure that it conforms to all valid regulations in these countries.

Load Index and Speed Symbol

These parametres are established by ETRTO and are the two most important service factors determining tyre performance.

Load indices and speed symbols are shown on both tyre sidewalls. Example: 149/145 L. The first number denotes the tyre load carrying capacity in SINGLE application, while the second number refers to DUAL fitment. The letter "L" defines the maximum speed limit. Unmarked Radial tyres are allowed up to a speed of 110 km/h. (Bias ply tyres are confined to 100 km/h).

Retreaded tyres can be run up to a maximum speed of 110 km/h, unless they are marked otherwise.

Special purpose tyres, for specific heavy duty applications must have the respective speed limitations identified on the sidewall.

The speed and load service identifications below are required by the European ECE-R54 regulation. The scale below shows the relationship between the Load Index (LI) and actual load values in kilograms (kg).

| Load | Index | | | | | | | | | | | | | | | |
|------|-------|---|----|-----|---|-----|------|---|-----|------|---|-----|------|---|-----|------|
| LI | kg | | LI | kg | | LI | kg | | LI | kg | | LI | kg | | LI | kg |
| 51 | 195 | | 71 | 345 | _ | 91 | 615 | _ | 111 | 1090 | _ | 131 | 1950 | | 151 | 3450 |
| 52 | 200 | | 72 | 355 | | 92 | 630 | _ | 112 | 1120 | | 132 | 2000 | | 152 | 3550 |
| 53 | 206 | | 73 | 365 | | 93 | 650 | | 113 | 1150 | | 133 | 2060 | | 153 | 3650 |
| 54 | 212 | | 74 | 375 | | 94 | 670 | | 114 | 1180 | | 134 | 2120 | | 154 | 3750 |
| 55 | 218 | | 75 | 387 | | 95 | 690 | | 115 | 1215 | | 135 | 2180 | | 155 | 3875 |
| 56 | 224 | | 76 | 400 | | 96 | 710 | | 116 | 1250 | | 136 | 2240 | | 156 | 4000 |
| 57 | 230 | | 77 | 412 | | 97 | 730 | | 117 | 1285 | | 137 | 2300 | | 157 | 4125 |
| 58 | 236 | | 78 | 425 | | 98 | 750 | | 118 | 1320 | | 138 | 2360 | | 158 | 4250 |
| 59 | 243 | | 79 | 437 | | 99 | 775 | | 119 | 1360 | | 139 | 2430 | | 159 | 4375 |
| 60 | 250 | | 80 | 450 | | 100 | 800 | | 120 | 1400 | | 140 | 2500 | | 160 | 4500 |
| 61 | 257 | | 81 | 462 | | 101 | 825 | _ | 121 | 1450 | | 141 | 2575 | | 161 | 4625 |
| 62 | 265 | | 82 | 475 | | 102 | 850 | _ | 122 | 1500 | | 142 | 2650 | | 162 | 4750 |
| 63 | 272 | _ | 83 | 487 | | 103 | 875 | _ | 123 | 1550 | | 143 | 2725 | | 163 | 4875 |
| 64 | 280 | _ | 84 | 500 | _ | 104 | 900 | _ | 124 | 1600 | | 144 | 2800 | | 164 | 5000 |
| 65 | 290 | _ | 85 | 515 | _ | 105 | 925 | _ | 125 | 1650 | | 145 | 2900 | | 165 | 5150 |
| 66 | 300 | _ | 86 | 530 | _ | 106 | 950 | _ | 126 | 1700 | | 146 | 3000 | | 166 | 5300 |
| 67 | 307 | | 87 | 545 | _ | 107 | 975 | _ | 127 | 1750 | | 147 | 3075 | | 167 | 5450 |
| 68 | 315 | | 88 | 560 | _ | 108 | 1000 | _ | 128 | 1800 | | 148 | 3150 | | 168 | 5600 |
| 69 | 325 | | 89 | 580 | _ | 109 | 1030 | _ | 129 | 1850 | | 149 | 3250 | | 169 | 5800 |
| 70 | 335 | | 90 | 600 | _ | 110 | 1060 | _ | 130 | 1900 | | 150 | 3350 | _ | 170 | 6000 |

The LOAD INDEX denotes the maximum load a given tyre can carry at the maximum speed as indicated by the speed symbol.

| Speed Symbol | | | | | | | | |
|--------------|--------------|--|--|--|--|--|--|--|
| Speed symbol | Speed (km/h) | | | | | | | |
| E | 70 | | | | | | | |
| F | 80 | | | | | | | |
| G | 90 | | | | | | | |
| J | 100 | | | | | | | |
| К | 110 | | | | | | | |
| L | 120 | | | | | | | |
| M | 130 | | | | | | | |
| N | 140 | | | | | | | |

The SPEED SYMBOL denotes the maximum speed at which a given tyre can carry the load indicated by the load index.

Interaction of Load and Speed

Below information is based on the "European Tyre and Rim Technical Organisation - Standards Manual" - Load Variation with Speed section.

Variations in Load Carrying Capacity with Speed (%)

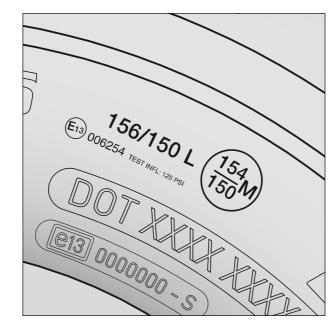
| | | | | | | | Inflation |
|--------|---------|---------|----------|----------|----------|----------|---------------|
| Speed | F | G | J | K | L | M | Pressure (%)* |
| km/h | 80 km/h | 90 km/h | 100 km/h | 110 km/h | 120 km/h | 130 km/h | Compensation |
| Static | +150 | +150 | +150 | +150 | +150 | +150 | +40 |
| 5 | +110 | +110 | +110 | +110 | +110 | +110 | +40 |
| 10 | +80 | +80 | +80 | +80 | +80 | +80 | +30 |
| 15 | +65 | +65 | +65 | +65 | +65 | +65 | +25 |
| 20 | +50 | +50 | +50 | +50 | +50 | +50 | +21 |
| 25 | +35 | +35 | +35 | +35 | +35 | +35 | +17 |
| 30 | +25 | +25 | +25 | +25 | +25 | +25 | +13 |
| 35 | +19 | +19 | +19 | +19 | +19 | +19 | +11 |
| 40 | +15 | +15 | +15 | +15 | +15 | +15 | +10 |
| 45 | +13 | +13 | +13 | +13 | +13 | +13 | +9 |
| 50 | +12 | +12 | +12 | +12 | +12 | +12 | +8 |
| 55 | +11 | +11 | +11 | +11 | +11 | +11 | +7 |
| 60 | +10 | +10 | +10 | +10 | +10 | +10 | +6 |
| 65 | +7.5 | +8.5 | +8.5 | +8.5 | +8.5 | +8.5 | +4 |
| 70 | +5 | +7 | +7 | +7 | +7 | +7 | +2 |
| 75 | +2.5 | +5.5 | +5.5 | +5.5 | +5.5 | +5.5 | +1 |
| 80 | 0 | +4 | +4 | +4 | +4 | +4 | 0 |
| 85 | _ | 2 | +3 | +3 | +3 | +3 | 0 |
| 90 | | 0 | +2 | +2 | +2 | +2 | 0 |
| 95 | | - | +1 | +1 | +1 | +1 | 0 |
| 100 | | | 0 | 0 | 0 | 0 | 0 |
| 105 | | | • | 0 | 0 | 0 | 0 |
| 110 | | | | 0 | 0 | 0 | 0 |
| 115 | | | | | 0 | 0 | 0 |
| 120 | | | | | 0 | 0 | 0 |
| 125 | | | | | <u> </u> | 0 | 0 |
| 130 | | | | | | 0 | 0 |
| | | | | | | | |

NOTES: Increment to be applied in the absence of any specific agreement with the tyre manufacturer. These increments do only apply to the "nominal" load/speed indices.

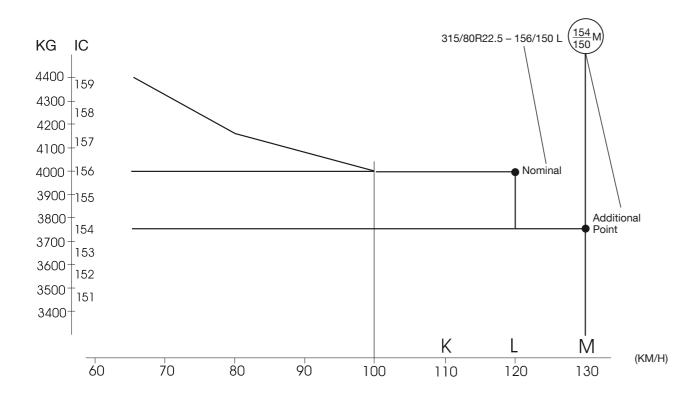
Additional load/speed markings

The tyre manufacturer has the possibility to add to the "nominal" load/speed indices an additional load/speed index with different load index and different speed index. This additional load/speed index is circled.

For other load benefits due to maximum speed variations please consult the table and notes in the "Interaction of Load and Speed" section.



NOTES: ETRTO tables apply only to nominal LI/SI marking.



Notes concerning "Variations in load capacity with speed (%)"

(Below notes refer to the ETRTO (European Tyre and Rim Technical Organisation) Guidelines, in case more details are required, please refer to the actual valid ETRTO Standards Manual)

- For the application being considered, "SPEED" means:
- either the maximum speed capability of the motor vehicle
- or any overriding national requirement/legislation for the type of motor vehicle
- or, in case of "special applications", the specific conditions of use.
- The load carrying capacity of tyres in dual fitments is twice the load carrying capacity in single up to 40 km/h. Bonus loads will not be permitted for speeds of 40 km/h and above if the wheel axles are rigidly fixed to the body of vehicle.
- Bonus loads are not applicable for trailers and semi-trailers at speeds over 65 km/h.

General definitions

Buses (Category M3 vehicles in the EU Directive) are subdivided into three classes depending on the intended type of use. Category M3 vehicles, for the carriage of passengers, have more than eight seats in addition to the driver's seat and exceed 5 tonnes in overall weight.

Class

Urban-bus or City bus – foreseen for urban use with frequent stops, these vehicles have spaces for standing passengers and allow movements of passengers.

Class II

Suburban bus or Interurban bus – foreseen for passenger transport within a given district, these vehicles have no specific spaces for standing passengers, but allow them to keep standing in the gangway for some distances during the trip.

Class III

Touring coach – These vehicles mainly foreseen for long distances, are conceived for transportation of sitting passengers only.

On the basis of the specific conditions of use of the buses designed for urban or suburban services and irrespective of their actual maximum speed capability, the following bonus loads apply:

lace I

+ 15% of the load indices marked on the tyre, when the average speed does not exceed 40 km/h.

Class II

+ 10% of the load indices marked on the tyre, when the operating speed is restricted to 60 km/h.

Class III

no bonus load Class

- For the equipment of special public service vehicles in urban and suburban applications (for instance road sweepers, fire tenders, etc.), on the basis of specific conditions of use and irrespective of the actual maximum speed capabilities of the vehicle, a bonus load of 10% applies with respect to the load indices marked on the tyre.
- In any case, it is recommended to avoid the maximum permissible load capacity if the resulting inflation pressure is higher than 1000 kPa. In that case, the load capacity shall be reduced accordingly.
- It is imperative to consult Rim/Wheel Manufacturers for the choice of rims and wheels suitable for the load carrying capacities and the inflation pressures required for applications at speeds of 40 km/h and below.

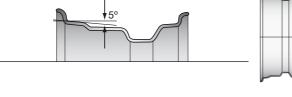
Rims and Wheels

For truck tyres, there are essentially 3 basic rim types available on the market:

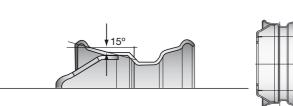
- one-piece tubeless drop center rims
- multi-piece tube-type flat base rims
- multi-piece tubeless flat base rims

One-piece tubeless drop center

5° Drop center Rim – (13", 14", 17" etc...) symmetric and asymmetric rims for standard and low section light truck (C) tyres.



15° Drop center Rim - (17.5", 19.5", 22.5" etc...) rims for standard and wide section (Low Aspect Ratio, Super Single) tyres.



Two and four-piece tube-type flat base

(Mainly 20") rims for high aspect ratio tyres. It will be important to avoid interchanging of parts from both systems.



NOTE: Each system is usually identified accordingly (stamped 2P or 4P).

Two-piece tube-type flat base





Four-piece tube-type flat base



Lock







Bead seat



Four-piece tube-type flat base

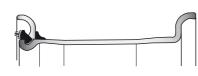






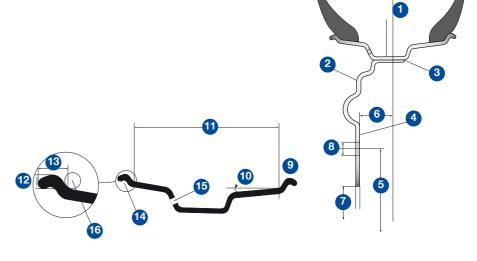


band



(20") rims for mainly 80-series tyres. They require a new sealing gasket for each new Complete wheel details are shown below:

- Drop center
- Disc
- Rim/disc junction
- Hub contact face
- Pitch (bolt) circle diametre
- Offset Center hole diametre
- Stud hole diametre
- Rim flange
- 10 Taper 11 Rim Width
- 12 Rim flange height
- 13 Rim flange width 14 Rim flange radius
- 15 Valve hole
- 16 Ball tape



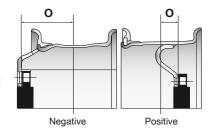
NOTE: Rim diametres can only be accurately measured by means of a special ball tape

All wheels have a given offset (O) which does not only provide for the necessary brake drum space, but which also determines track width, kingpin offset, handling characteristics and wheel bearing load. On dual assemblies, it also influences the dual spacing.

Tyre fitters and mechanics must therefore pay attention that:

- specific vehicles are fitted with the correct offset wheels.
- wheels with different offsets are not mixed up on the same axle.

Wheel offsets can be positive, negative or zero. The offset is defined as the distance from the wheel center to the inside face of the disc (against the hub) and is called positive whenever this inside face is located outside of the centerline. negative when located inside, zero when matching the centerline exactly.

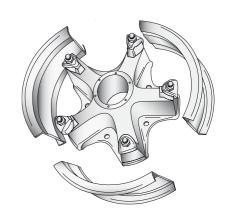


As a general maintenance rule, assembling and disassembling of multi-piece rims should only be done with specially designed tools. This will not only assure

the safety of the fitter, but will also avoid usage of hammers and other inadequate equipment which could sooner or later damage or break vital rim parts. Also, for 1-piece tubeless rims, proper tooling is essential, since it will otherwise be extremely difficult or even impossible to mount such tyres safely and without bead area damage.

For demountable 1- or multiple-piece spoke-type wheels, the following additional precautions should be taken:

- Contact surfaces between rim and star should not be painted to guarantee perfected centring.
- o Bolts should be tightened clockwise (not crosswise) without exceeding the recommended maximum torque given by the vehicle manufacturer.
- Bolts and clamps should be re-checked at 50-100 km after wheel fitment and re-tightened if necessary.
- In case of dual mounting, the spacer ring should be pre-centred over the centering cams (placed on spokeheads).



Tubes and Flaps

Only use "Radial" marked tubes and flaps in Radial Tyres. Preferably fit a new tube and a new flap when mounting a new tyre. Due to their inherent construction, Radial Tyres impose far greater local stresses on Inner tubes than Bias Tyres. "Radial" marked Tubes are specially compounded to withstand these stresses and their use in Radial Tyres is mandatory. "Radial" marked Tubes may also be used in Bias Tyres, but in this application, unmarked Bias Tubes are perfectly satisfactory.

The higher stresses in Radial Tyres render the tube more susceptible to Flap Edge Cutting, and the use of "Radial" marked flaps, specially compounded such that they will not harden excessively in service is mandatory.

Tubes

Tubes are designed within well defined limits of Radial and Total Stretch. A tube too large will be liable to buckling, and to early failure. A tube too small will be stretched excessively, leading to reduced rub resistance, and poorer air retention. In an emergency, a small tube is better than a large tube, since the failure mode is less likely to be catastrophic.

In case of necessity, a tube may be reused, if,

- There is no apparent damage and
- If the tube has not grown excessively during the first life. It is suggested that for a tube to be reused, a residual radial stretch of at least 15% is required.

NOTE: The fitment of tubes to "tubeless" tyres is not recommended.

Flaps

The flap is designed to:

- Protect the tube from the roughness of the rim.
- To prevent the tube being pinched by the component parts of multi-pieced rims.
- To prevent the tube being pushed through the valve slot.

As a rule we can say that flaps are necessary for any rim which has a valve slot as against a valve hole.

All Drop center rims including passenger, truck and farm, have a valve hole on the side of the well and require an off center valve on the tube. They do not require a Flap.

Drop center truck rims occasionally have the valve hole on center, but these are normally only fitted with run out tubes in emergency cases which is a practice not endorsed by Goodyear.

All flat base rims with a removable flange have a valve slot extending from the centerline of the rim to the edge. These rims require a flap, and a tube with an on center valve.

All Semi Drop center rims have a short valve slot, which may be on or off center dependant on the type of rim, and upon the rim manufacturer, and require flaps and tubes with respectively on or off center valvehole, and tube valve.

Rim slot cover plates

Even the best flaps, subjected as they are to high pressure and temperature, (wheel temperatures as high as 200°C have been measured on the inside rear position in City Bus service in Europe) are liable to be pushed through the rim slot in service.

Flaps are designed with fabric, or heavy rubber reinforcement in the valve slot area to overcome this problem, but for critical applications, the use of commercially available rim slot coverplates, or even a large diametre metal washer are recommended. Since the push through, and possible failure occurs next to the bead, rather than around the valve, Bridge plates, are not really effective, and their use in Europe is decreasing.

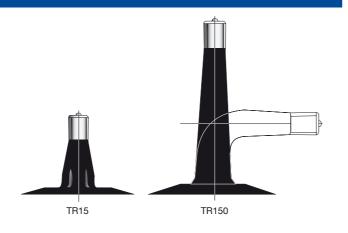
| Medium truck – 20/24" | | | | | | | | |
|-----------------------|----------|------|--------|--|--|--|--|--|
| Tyre size | Tube | Rim | Flap | | | | | |
| 12.00R20 | 12.00R20 | 8.0 | 20R8.5 | | | | | |
| | | 8.5 | 20R8.5 | | | | | |
| | | 9.0 | 20R9.5 | | | | | |
| 14.00R20 | 14.00R20 | 10.0 | 20R9.0 | | | | | |
| 12.00R24 | 12.00R24 | 8.0 | 24R8.5 | | | | | |
| | | 8.5 | 24R8.5 | | | | | |
| | | 9.0 | 24R9.0 | | | | | |

Valves

Three types of Inner Tube Valve exist in Commercial service:

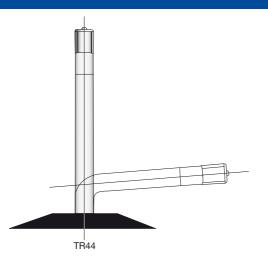
Rubber covered valves

Rubber covered valves which may be rigid as for the TR15, or hand bendable as for the TR150.



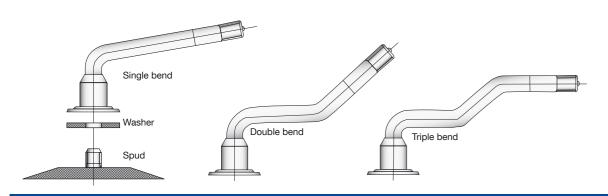
One-piece metal valves

One-piece metal valves, such as the TR44 series. These are generally supplied with the required bent form, and may be single, double or triple bent.



Two-piece metal valves

European style two-piece metal valves consist of a spud (a short threaded metal tube) vulcanised onto the tube and a pre-bent extension which screws onto the spud, using a rubber washer as the air seal.



Fitting extension valves

Extensions are actually coded in the form V^*-^{**} , but to avoid confusion are generally referred to as the designation of the one piece metal valve to which they are equivalent.

The weakest part of the design of the extension type valves is the rubber washer. The washer is compressed when the valve is tightened, and loses its elasticity with age. Rubber washers should never be reused since they harden and take a permanent set. Similarly, extensions should never be backed off to make them line up with the rim slots.

The correct procedure is to wind the extension onto the stem until it just contacts the washer. Take another half turn. Then mount the tyre/tube/flap assembly, and line the extension up with the slot by tightening further.





Valve caps

Valves must always be fitted with a valve cap.

The valve core is present to allow the internal air pressure to be measured and changed. It is the valve cap which is the primary air seal. Valve caps are always made of metal and have a rubber sealing ring. The plastic dust caps are not suitable for field service. They are designed to prevent damage to the Tube/Valve/Valve Core during transportation from point of manufacture to point of use.

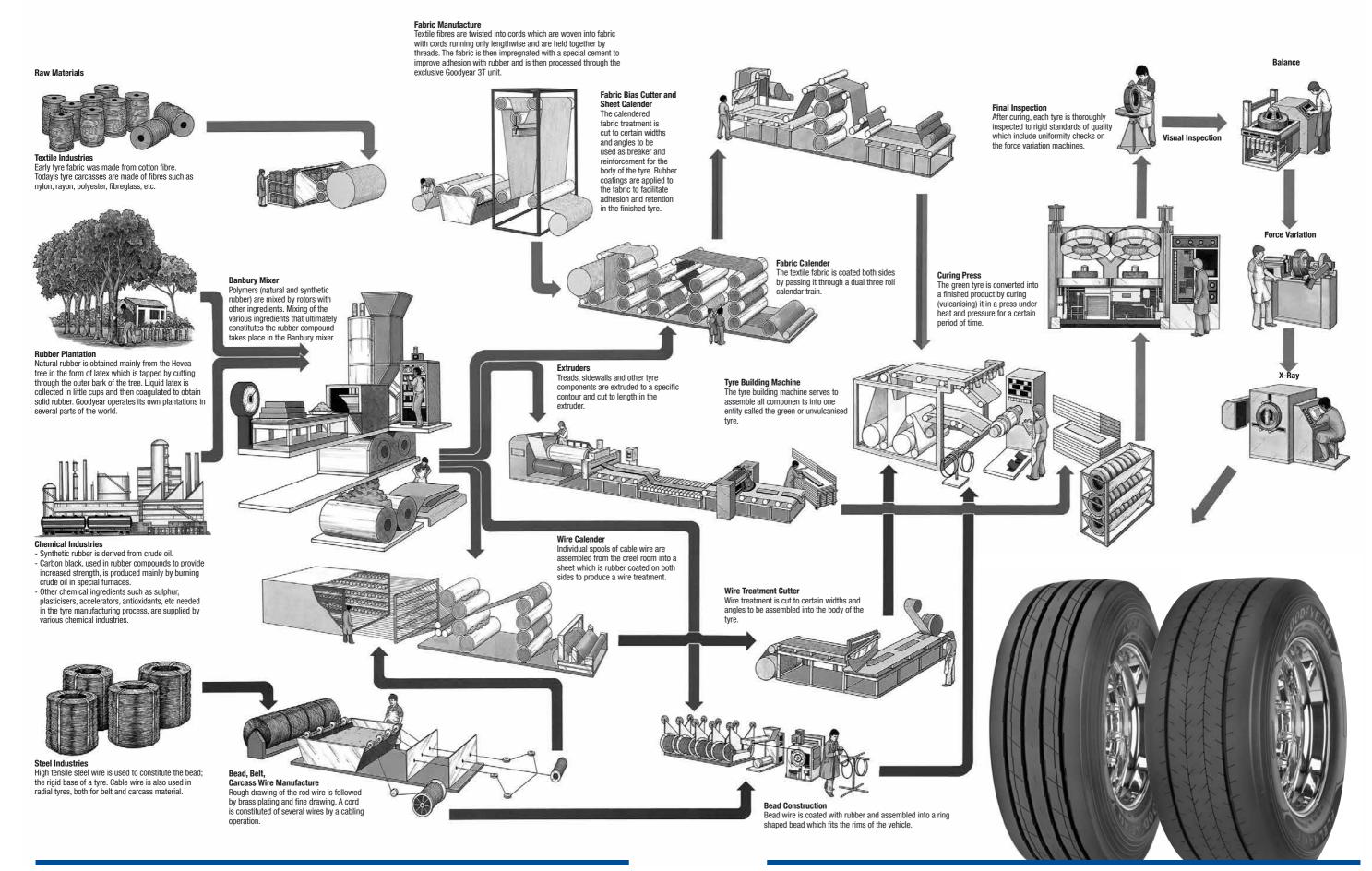
Valve cores

Valve cores are available in two lengths, two temperature ranges, and with either internal or external springs. Fortunately all these cores are interchangeable. It is recommended to use the short core, internal spring, heat resistant type. These are recognisable since the small rubber collar around the core is coloured red.

Conversion from T&RA to reference numbers **ETRTO Double** T&RA Single Triple TR75 V3.02.27 TR76 V3.02.8 TR78 V3.02.12 V3.04.6 V3.06.5 TR175 V3.02.10 V3.04.4 V3.06.3 TR177 V3.02.9 V3.04.3/10 V3.06.1 TR178 V3.02.14 TR179 V3.02.15 V3.06.6 TR285 V3.07.1

NOTE: Goodyear primarily manufactures truck tubes with spud/screw on extension type valves.

The tyre manufacturing process



Notes Notes

Notes Notes

Goodyear Dunlop Tyres

TyreFort 88-98 Wingfoot Way Birmingham ENGLAND B24 9HY

Telephone

0121 306 6000

Contact your local Goodyear dealer for tyre availability

All information in this material was valid on its date of issuance (May 2015). For detailed and up to date information, please refer to your dealer or to **www.goodyear.co.uk/truck**

