

# MICHELIN SMARTWAY® VERIFIED LOW-ROLLING RESISTANCE TIRES



Michelin is constantly looking for ways to further reduce the environmental impact of our activities and products. Michelin fuel efficient<sup>(1)</sup> tires can help your fleet save money and reduce fuel consumption, all while reducing greenhouse gas and air pollutant emissions. The fuel saving and emission reducing benefits of our low rolling resistance tires have been verified by the Environmental Protection Agency's (EPA) SmartWay® program.<sup>(2)</sup>

Michelin fuel efficient tires are approved for use on EPA SmartWay® certified equipment and meet California's CARB requirements.

More information about the SmartWay program as well as verified low rolling resistance tires and retreads can be found at US: [www.epa.gov/smartway](http://www.epa.gov/smartway) or CA: <https://www.nrcan.gc.ca>.



## ALL POSITION/STEER TIRES<sup>(3)</sup>



### Michelin X LINE ENERGY Z +

- The Michelin X® Line Energy™ Z+ tire is 12% lower in rolling resistance<sup>(1)</sup> and delivers 17% more miles/ kilometers<sup>(2)</sup> than its predecessor.
- The Michelin X® Line Energy™ Z+ tire is 12% lower in rolling resistance than its predecessor.<sup>(2)</sup>

(1) Based on wear projections in an internal study of 5 fleets in line haul usage at 94% worn, 260 total tires, 6/32" pull point, 295/75R22.5 LRH X® Line Energy™ Z+ vs. 275/80R22.5 LRH X® Line Energy™ Z (equivalent sizes). Actual on-road results may vary.  
(2) Calculated based on internal ISO28580 rolling resistance testing; 295/75R22.5 LRH X® Line Energy™ Z+ vs. 275/80R22.5 LRH X® Line Energy™ Z (equivalent sizes).



### Michelin X LINE ENERGY Z

- Industry Leading Mileage Guarantee: 20% more mileage guaranteed vs. leading competitor line haul steer tires.\*
- Dual Compound Tread: Delivers more mileage without compromising ultra-fuel-efficiency and retreadability.
- 7/7/3 manufacturer's limited casing warranty<sup>(4)</sup>

\* Please see [business.michelinman.com](http://business.michelinman.com) >Toolbox >Reference Documents >WarrantiesInformation & Guarantees for details.



### Michelin X LINE ENERGY Z 295

Designed specifically for the mileage performance and enhanced durability required in the auto hauler steer position.

- Infini-Coil Belt Technology – Optimizes the shape of the contact patch for longer tread life and strengthens the crown against shocks and impacts
- Shock Pad – an increased layer of protection between the protector ply and the belt package to help absorb the forces of impacts and shocks.



### Michelin X MULTI ENERGY Z2

Challenging the traditional trade off, and setting new standards, in fuel efficiency, traction and mileage performance for super regional and regional applications.

- Fuel efficiency – Derived from Michelin's advanced compounding coupled with dual layers for fuel efficiency and tread durability
- Regenion tread sculpture – Alternating channel groove design that evolves as the tread wears, providing water evacuation throughout life

## ALL POSITION/STEER TIRES<sup>(3)</sup>

## DRIVE TIRES<sup>(3)</sup>



### Michelin X MULTI Z 19.5

An all position radial tire optimized for a wide spectrum of regional applications.

- Increased Fuel Efficiency - New tread compound
- Reduced Irregular Wear – Bi-directional tread design helps to reduce irregular wear.
- Enhanced Casing Life – Groove bottom protectors and stone ejectors help to reduce stone drilling to extend casing life.
- Extended Casing Life - Four-belt package helps to protect against shocks, impacts and road hazards.



### Michelin X ONE LINE ENERGY™ D2

- Ultra-low rolling resistance due to advanced tread compounding and compound tread sculpture, save \$2,317 {CAD 3,518} per year versus Bridgestone Greatec M835A Ecopia tires.
- Designed with driver confidence in mind, providing stability and long lasting traction with the Regenion Tread design while delivering enhanced durability.



### Michelin X ONE LINE GRIP D

- Michelin's next generation X ONE drive tire for long haul and regional applications with grip that weathers the elements.
- Infini-Coil® incorporates ¼ mile (0,4 km) of steel cable
- Interlocking sipes with zig zag walls provide thousands of biting edges for traction.
- Weight savings of approximately 389 lbs. (176 kg) more payload\*

\* Based on replacing eight Michelin XDN2 dual tires with Alcoa® Ultra ONE wheels with four Michelin X ONE LINE GRIP D tires with Alcoa® Ultra ONE Wheels.



### Michelin X LINE ENERGY™ D

- Excellent fuel efficiency<sup>(3)</sup> with leading tread life and traction
- 20% longer tread life\* thanks to top layer of Dual Energy Compound, a wide footprint and solid shoulder
- Excellent handling due to optimized traction and stability from Matrix Siping technology
- 7/7/3 manufacturer's limited casing warranty<sup>(4)</sup>

\* Compared to Michelin XDA ENERGY tire

## DRIVE TIRES<sup>(1)</sup>

## TRAILER TIRES<sup>(1)</sup>



### Michelin X LINE ENERGY™ D+

Fuel efficient<sup>(3)</sup> dual drive tire designed to deliver improved rolling resistance and fuel savings while providing exceptional traction.

- Interlocking siping and regenerating features provide biting edges throughout tread life.
- Durable casing with high tensile strength steel belts supports repeated retreading.
- 7/7/3 manufacturer's limited casing warranty<sup>(4)</sup>



### Michelin X MULTI ENERGY™ D

- Fuel efficient<sup>(3)</sup> drive tire designed with optimized traction and treadlife
- Dual Energy Compound Tread delivers exceptional fuel efficiency<sup>(3)</sup> while optimizing traction and wear
- Longer tread life\* due to an optimized footprint

\* When compared to Michelin XDA ENERGY tire



### Michelin X MULTI D 19.5

An open shoulder drive axle radial tire designed for regional applications.

- More Surface Contact Area – Contributes to tread stability and efficient miles/32nds
- Advanced Technology Compound – Results in 13% lower rolling resistance for improved fuel efficiency<sup>(3)</sup>
- Aggressive Tread Design with Semi-Open Shoulder - Provides exceptional traction and driver confidence
- Robust 4 Belt Package - Provides stable footprint and overall durability



### Michelin X ONE LINE ENERGY T2

Our most fuel-efficient trailer tire\*, the Michelin X ONE LINE ENERGY T2 tire is designed for improved tread wear, fuel and weight savings to lower your total cost of ownership.

- Matrix and micro sipes help improve wear.

\* Based on internal rolling resistance tests using ISO 28580 test method using comparable line haul trailer tires in tire size 275/80R22.5 LRG for the Michelin X® Line Energy T and 445/50R22.5 LRL for the Michelin X One Line Energy T2 tire.

## TRAILER TIRES<sup>(1)</sup>



### Michelin X LINE ENERGY T2

Our most fuel-efficient dual trailer tire\* for truckload, long haul transportation. The Michelin X® LINE ENERGY T2 tire is designed for improved tread wear, fuel savings, excellent retreadability and exceptional traction for driver confidence.

\* Based on internal rolling resistance tests using ISO 28580 test method using comparable line haul trailer tires in tire size 295/75R22.5 LRG for the Michelin X® Line Energy T2 tire.



### Michelin X ONE MULTI T

Weight saving, scrub resistant solution designed to deliver superior tread life for regional trailer applications.

- Dual-tread Compounding – A cooler internal layer promotes better fuel efficiency by improving the rolling resistance
- Deeper tread – Deeper tread leading to more miles of use
- Curb Guards – Enhanced sidewall protection with the addition of curb guards



### Michelin X ONE MULTI ENERGY T

- Directional sipes and solid shoulders help reduce irregular wear\*
- Leading SmartWay® fuel economy<sup>(3)</sup> comes from use of Advanced Technology Compounds that deliver low rolling resistance
- Trailer tire designed to replace duals in high scrub regional applications

\* Based on current pull points vs Michelin X ONE XTE® tire in field testing and observations.



### Michelin X MULTI ENERGY T2

- Designed to withstand the toughest conditions, the X® Multi Energy™ T2 is the robust trailer tire ideal for high scrub and spread axle applications.
- Resists Scrub and Irregular Wear – Tread compound and sculpture engineered for regional use
- Regenion Technology – Evolving grooves open as tread wears for long lasting traction and control in all-weather conditions.

(1) For more information on SmartWay® verified technologies, go to US: [www.epa.gov/smartway](http://www.epa.gov/smartway) or CA: <https://www.nrcan.gc.ca>.

(2) The following Michelin tires are on the SmartWay® verified, low rolling resistance tire list, but are discontinued.

**STEER/ALL-POSITION** : X Coach XZ, X Multi Energy Z, X Multi Z, X Multi Z (size 315/80R22.5 Load Range L only), XZA1+, XZA2, XZA2 Energy, XZA3, XZA3+

**DRIVE** : X Multi Energy Z, X Multi D, X Multi Z, X One XDA, X One XDN2, X One XDA Energy, X One Line Energy D, XDA Energy, XDA Energy +, XDA3

**TRAILER** : X Line Energy T, X Line Energy T2, X One Line Energy T, X One XTA, X One XTE, XTA Energy, XT-1

**NOTE** : The Michelin XZE2, XZE, XDE2+, XDN2, XDA2+ ENERGY, XDE M/S and XTE tires prior to DOT date 1011 will still be considered as "verified" for the purposes of the SmartWay® program and for any national or local regulations that use this list as the reference.

(3) Based on industry standard rolling resistance testing of comparable tires and retreads. Actual results may vary, and may be impacted by many factors, to include road conditions, weather and environment, driver performance, etc.

(4) 7/7/3 Manufacturer's Limited Casing Warranty: 7 year or 700,000 mile or 3-Retread Limited Warranty for certain Michelin tires when retreaded by an authorized Michelin Retread Technologies (MRT) Dealer only. See limited warranty for details.

(5) "No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels." US Code of Federal Regulations: Title 49, Transportation; Part 393.75.

TO FIND OUT MORE

US: [business.michelinman.com](http://business.michelinman.com)

CA: [business.michelin.ca](http://business.michelin.ca)

Michelin North America Inc. One Parkway South, Greenville, SC 29615

Michelin North America (Canada) Inc.

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