

# 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 [epa.gov/smartway](http://epa.gov/smartway).



## ALL POSITION/STEER TIRES<sup>(1)</sup>



### MICHELIN® X® LINE™ ENERGY Z

- Industry Leading Mileage Guarantee: 20% more mileage guaranteed vs. leading competitor line haul steer tires.\*
- Improved Fuel Efficiency: Ultra Fuel Efficient Casing delivers 5% better rolling resistance than the ultra-fuel efficient MICHELIN® XZA3®+ EVERTREAD® tire.\*\*
- Dual Compound Tread: Delivers more mileage without compromising ultra-fuel-efficiency and retreadability.
- 7/7/3 manufacturer's limited casing guarantee<sup>(4)</sup>

\* Please see [MichelinTruck.com](http://MichelinTruck.com) > Reference Materials > Warranties/Guarantees for details.

\*\* Vs. MICHELIN® XZA3®+ EVERTREAD® based on internal rolling resistance tests using ISO 28580 in tire size 275/80R22.5.



### MICHELIN® X® MULTI™ ENERGY Z

- 15% reduction in rolling resistance\*\* from Michelin's new Energy Casing. The Energy Casing delivers a cool running bead and sidewall for lower rolling resistance and improved fuel efficiency
- No compromise fuel efficiency and tread life comes from use of Dual Compound Tread technology, featuring a top mileage layer above a bottom fuel and durability layer
- Engineered to deliver excellent mileage in emerging super regional application

\*\* Versus MICHELIN® XZE®2 tire.



### MICHELIN® X® MULTI™ Z

- An all position radial tire optimized for a wide spectrum of regional applications.
- Increased fuel efficiency<sup>(3)</sup> - new tread compound lowers rolling resistance by 9% versus the MICHELIN® XZE®2+ tire.\*
- Reduced irregular wear - 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.

\* 265/70R19.5 – 9% lower rolling resistance is in comparison to the 265/70R19.5 MICHELIN® XZE®2+ tire.



### MICHELIN® XZA2® ENERGY

- Optimized channel design allows for long tread life and minimized irregular wear
- Low rolling resistance compounds for fuel economy<sup>(3)</sup> in highway service
- Optimized for steer axle service

(1) MICHELIN® XZA2®, XZA3®, XZA-1+, X® COACH™ XZ, and XZA3®+ EVERTREAD® tires are on the SmartWay® verified, low rolling resistance tire lists, but no longer available for sale.

(2) For more information on SmartWay® verified technologies, go to [www.epa.gov/smartway](http://www.epa.gov/smartway)

(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 Guarantee: 7 year or 700,000 mile or 3-Retread Limited Guarantee for MICHELIN® XDA® ENERGY +, X® LINE™ ENERGY Z, XZA3®+ EVERTREAD®, XDA3®, XDA® ENERGY, X® LINE™ ENERGY D, and X® LINE™ ENERGY T tires when retreaded by an authorized Michelin Retread Technologies (MRT) Dealer only. See limited warranty for details.



**MICHELIN**

SmartWay<sup>®</sup>  
Verified

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



### MICHELIN<sup>®</sup> X ONE<sup>®</sup> LINE<sup>™</sup> ENERGY D

- The most fuel efficient<sup>(2)</sup> drive tire for North American line haul trucks
- No compromise fuel efficiency and mileage delivered by the Dual Energy Compound Tread, with a precisely balanced Fuel and Mileage layer on top of a cool running Fuel and Durability layer
- Guaranteed 15% more miles than MICHELIN<sup>®</sup> X ONE<sup>®</sup> XDA<sup>®</sup> Energy tire
- Excellent handling due to optimized traction and stability from full depth *Matrix*<sup>™</sup> Sipes



### MICHELIN<sup>®</sup> X ONE<sup>®</sup> XDN<sup>®</sup>2

- Multiple tread compounds to keep the casing cooler and optimize retreadability
- Infini-Coil<sup>™</sup> incorporates 1/4 mile of steel cable
- Extra wide tread width for excellent stability and long wearlife
- Weight savings of approximately 371 lbs. per tractor, when compared to the MICHELIN<sup>®</sup> XDN<sup>®</sup>2 tire



### MICHELIN<sup>®</sup> X<sup>®</sup> LINE<sup>™</sup> ENERGY D

- Excellent fuel efficiency<sup>(2)</sup> with leading tread life and traction
- Exceptional fuel efficiency through Dual Energy Compound
- 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*<sup>™</sup> Siping technology
- 7/7/3 manufacturer's limited casing guarantee<sup>(3)</sup>

\* Compared to MICHELIN<sup>®</sup> XDA<sup>®</sup> ENERGY tire



### MICHELIN<sup>®</sup> XDA<sup>®</sup> ENERGY +

- Saves \$400 per Truck Annually in Fuel vs. a Leading Competitor\*
- Fuel Savings Limited Guarantee\*\*
- Innovative FuelSaver<sup>™</sup> tread compound provides ultra-low rolling resistance
- Tread design optimized to help provide long even wear
- 7/7/3 manufacturer's limited casing guarantee<sup>(4)</sup>

\* Fuel savings calculated based on replacing the Bridgestone M710 Ecopia<sup>™</sup> with the MICHELIN<sup>®</sup> XDA<sup>®</sup> ENERGY + in (8) drive tire positions on a class 8 tandem-drive axle truck. Calculations also based on the U.S. National average diesel fuel price as of July 31, 2017 for a class 8 tandem-drive axle truck and single tandem axle trailer combination traveling 120,000 miles/year. Actual results may vary, and may be impacted by many factors, to include road conditions, weather, environment, combination of steer and trailer tires used, driving habits, tire size, equipment and maintenance

\*\* See your Michelin Representative or michelin-truck.com/reference-materials/manuals-bulletins-and-warranties/ for details.



### MICHELIN<sup>®</sup> X<sup>®</sup> MULTI<sup>™</sup> D<sup>(1)</sup>

- An open shoulder drive axle radial tire designed for regional applications
- Advanced Technology Compound Results in 13% lower rolling resistance for improved fuel efficiency<sup>(2)</sup>
- Aggressive tread design with semi-open shoulder
- Provides exceptional traction and driver confidence

\* Versus MICHELIN<sup>®</sup> XDE<sup>®</sup>2+ tire.



### MICHELIN<sup>®</sup> XDA<sup>®</sup> ENERGY<sup>(3)</sup>

- Advanced Technology<sup>™</sup> Compounds for outstanding fuel efficiency<sup>(2)</sup>
- Alternating groove wall angles help resist stone retention and promote improved traction throughout the life of the tire
- 7/7/3 manufacturer's limited casing guarantee<sup>(3)</sup>



### MICHELIN<sup>®</sup> X<sup>®</sup> MULTI<sup>™</sup> ENERGY D

- Fuel efficient<sup>(2)</sup> drive tire designed with optimized traction and treadlife
- Dual Energy Compound Tread delivers exceptional fuel efficiency<sup>(1)</sup> while optimizing traction and wear
- Longer tread life\* due to an optimized footprint

\* When compared to MICHELIN<sup>®</sup> XDA<sup>®</sup> ENERGY tire

(1) MICHELIN<sup>®</sup> X ONE<sup>®</sup> XDA<sup>®</sup>, X ONE<sup>®</sup> XDA<sup>®</sup> ENERGY, X ONE<sup>®</sup> XTA<sup>®</sup>, X ONE<sup>®</sup> XTE<sup>®</sup>, XDA<sup>®</sup>3, XTA<sup>®</sup> ENERGY, and XT-1<sup>®</sup> tires are on the SmartWay<sup>®</sup> verified, low rolling resistance tire list, but are discontinued.

(2) 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.

(3) 7/7/3 Manufacturer's Limited Casing Guarantee: 7 year or 700,000 mile or 3-Retread Limited Guarantee for MICHELIN<sup>®</sup> XDA<sup>®</sup> ENERGY +, X<sup>®</sup> LINE<sup>™</sup> ENERGY Z, XZA3<sup>®</sup>+ EVERTREAD<sup>®</sup>, XDA3<sup>®</sup>, XDA<sup>®</sup> ENERGY, X<sup>®</sup> LINE<sup>™</sup> ENERGY D, and X<sup>®</sup> LINE<sup>™</sup> ENERGY T tires when retreaded by an authorized Michelin Retread Technologies (MRT) Dealer only. See limited warranty for details.

(4) "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.

#### NOTE:

\* The MICHELIN<sup>®</sup> XZE2<sup>™</sup>, XZE<sup>®</sup>, XDE<sup>®</sup>2+, XDN<sup>®</sup>2, XDA2+<sup>®</sup> ENERGY, XDE<sup>®</sup> M/S and XTE<sup>®</sup> tires prior to DOT date 1011 will still be considered as "verified" for the purposes of the SmartWay<sup>®</sup> program and for any state or local regulations that use this list as the reference.

\*\* CARB will apply an exemption for open shoulder drive tires that will include the MICHELIN<sup>®</sup> XDN<sup>®</sup>2 and the XDE2+<sup>™</sup> tires until Jan. 1, 2013 (based on tire DOT date).

To learn more, please contact your MICHELIN Sales Representative or visit [www.michelintruck.com](http://www.michelintruck.com)  
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MWL12450 POD (08/17)

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



### MICHELIN<sup>®</sup> X ONE<sup>®</sup> LINE<sup>™</sup> ENERGY T

- Breakthrough Advanced Casing Technology delivers up to 15% improvement in removal mileage\* by significantly reducing irregular wear
- Excellent fuel economy<sup>(2)</sup> comes from use of Advanced Technology<sup>™</sup> Compounds that deliver low rolling resistance
- Casing life is extended using Michelin's rectangular bead bundle and full width protector ply to help prevent punctures

\* Based on current pull point vs MICHELIN<sup>®</sup> X ONE<sup>®</sup> XTA<sup>®</sup> tire in field testing and observation.



### MICHELIN<sup>®</sup> X ONE<sup>®</sup> MULTI<sup>™</sup> ENERGY T

- Deliver a 15% reduction in rolling resistance\*<sup>(2)</sup>
- Directional sipes and solid shoulders help reduce irregular wear\*\*
- Leading SmartWay<sup>®</sup> fuel economy<sup>(2)</sup> comes from use of Advanced Technology<sup>™</sup> Compounds that deliver low rolling resistance
- Trailer tire designed to replace duals in high scrub regional applications

\* Improvement based on comparison vs MICHELIN<sup>®</sup> X ONE<sup>®</sup> XTE<sup>®</sup> tire rolling resistance. Rolling resistance data is determined using drum tests according to ISO 28580 procedures.

\*\* Based on current pull points vs MICHELIN<sup>®</sup> X ONE<sup>®</sup> XTE<sup>®</sup> tire in field testing and observations.



### MICHELIN<sup>®</sup> X<sup>®</sup> LINE<sup>™</sup> ENERGY T

- No compromise fuel efficiency<sup>(2)</sup> and mileage
- Advanced Technology<sup>™</sup> Tread Compound delivers 10% less rolling resistance than the MICHELIN<sup>®</sup> XT-1<sup>®</sup> tire
- Solid tread sculpture optimizes the contact patch for excellent wear resistance
- 7/7/3 manufacturer's limited casing guarantee<sup>(3)</sup>