



CONTACT:

Jeff Bray/Jeremy Katzman
O'Connell & Goldberg, Inc.
(954) 964-9098

jbray@oandgpr.com/katzman@oandgpr.com

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STATISTICS

Benefits of Nitrogen

- The benefits of nitrogen inflation include less inflation loss for a more stable, consistent tire pressure; cooler running tires; longer tread life; less oxidation of tire components and reduced rim and wheel corrosion. The result is increased tire life, improved fuel economy, reduced tire aging and a more durable tire casing for improved retreadability. – Tire Retread Information Bureau (TRIB)
- A truck or bus tire inflated with compressed air could lose on average 2 psi per month, while a tire inflated with nitrogen under the same conditions could lose only 2 psi throughout three months. – Tire Retread Information Bureau (TRIB)
- Nitrogen gas can be safely used in place of compressed air to inflate tires. Nitrogen may aid in tire pressure retention as it does not seep through a tire as quickly as compressed air. – Rubber Manufacturers Association (RMA)
- When nitrogen is used instead of air, the change in rubber properties is significantly slowed or even halted. – Ford Motor Company
- Nitrogen molecules migrate three to four times more slowly than oxygen, so tires stay properly inflated longer. – American International Automobile Dealers

Effects of Under-inflated Tires

- Air-filled tires can lose from 1 to 2 psi per month as air permeates through the tires. Vehicles with under-inflated tires have had handling problems that caused crashes resulting in fatalities and injuries. In addition the fuel economy of vehicles driving on underinflated tires is slightly lower. – Government Accountability Office (GAO)
- 27 percent of passenger cars on U.S. roadways are driven with one or more substantially under-inflated tires. – U.S. Department of Transportation's National Highway Traffic Safety Administration.
- 32 percent of light trucks (including SUVs, vans and pickup trucks) are driven with one or more substantially under-inflated tires. – U.S. Department of Transportation

Tire Wear

- The Maintenance Council (TMC) reports that 10 percent under-inflation will shorten tread life by 9 to 16 percent. – Bridgestone

Fuel Savings

- A 1 percent loss of fuel efficiency occurs for every 2 psi of air under the maximum level. – Environmental Protection Agency
- You can improve your gas mileage by around 3.3 percent by keeping your tires inflated to the proper pressure. Under-inflated tires can lower gas mileage by 0.4 percent for every 1 psi drop in pressure of all four tires. Properly inflated tires are safer and last longer. – Fueleconomy.gov
- 5 percent under-inflation increases fuel consumption by 1 percent and releases 1.5 million tons of carbon dioxide into the atmosphere. – Michigan Department of Transportation
- Operating a vehicle with just one under-inflated tire by 20 percent (8 psi) can reduce the life of the tire by 15,000 km (9,321 mi) and can increase the vehicle's fuel consumption by 4 percent. – Rubber Manufacturers Association Canada (RMA Canada)
- The U.S. Department of Energy said under-inflated tires wasted 4 million gallons of gasoline daily - or nearly 1.5 billion gallons annually - in America. – Dunlop Tires

Safety

- The National Highways Traffic Safety Administration estimates that proper tire inflation could help save about 50 to 80 lives and prevent 6,600 to 10,600 injuries each year. Additionally, the Rubber Manufacturers Association (RMA) estimates that 250,000 crashes a year result from improperly inflated tires. – Michelin