

# **TIRE TECH: MERCEDES-BENZ ORIGINAL EXTENDED TIRES (MOEXTENDED OR MOE)**

(Lea en español)

Tires branded with MOExtended or MOE on their sidewalls identify them as being specifically tuned for Mercedes-Benz vehicles. The Extended portion of the name identifies they feature run-flat-like tire characteristics by offering temporary extended mobility. However, since they don't meet all of the International Organization for Standardization (ISO) run-flat tire operating limits under all permitted vehicle loads, they cannot be branded as run-flat tires.

Mercedes-Benz vehicles traditionally provide high levels of comfort, which makes it challenging for chassis engineers to add traditional run-flat tires without experiencing some sacrifices in ride comfort. Mercedes-Benz believes much of the undesirable ride firmness is directly associated with traditional self-supporting run-flat tires, so they collaborated with several tire manufacturers to develop lighter-duty temporary extended mobility tires that are designed to increase trunk space and provide a location for the BlueTEC diesel urea tank while enhancing vehicle fuel economy and everyday ride comfort.

## **Operating Limits**

In the event a simple puncture results in tire pressure loss, traditional ISO run-flat tires are rated to provide temporary mobility for up to 50 miles (80 km) at up to 50 mph (80 km/h) for all permitted loads after the vehicle's tire pressure monitoring system (TPMS) alerts the driver of significant tire pressure loss.

While the same speeds of up to 50 mph (80 km/h) are permitted, MOExtended tires are designed to provide temporary extended mobility on a fully loaded vehicle for up to 20 miles (30 km) and on a lightly loaded vehicle of up to 50 miles (80 km) after the vehicle's tire pressure monitoring system (TPMS) alerts the driver of significant tire pressure loss.

Some tires are dual-branded, with both the MOExtended/MOE and run-flat designations on the tire sidewall. These tires meet the requirements for Mercedes-Benz vehicles and the ISO run-flat tire operating limits of 50 miles (80km) of mobility at speeds up to 50 mph (80 km/h) for all permitted vehicle loads after the vehicle's TPMS alerts the driver of significant tire pressure loss.

Similarly, MOExtended/MOE tires manufactured by Michelin and bearing the ZP (Zero Pressure) designation are capable of traveling up to 50 miles (80km) at up to 55 mph (89 km/h) for all permitted vehicle loads after the vehicle's TPMS alerts the driver of significant tire pressure loss.

Tire manufacturers that produce MOExtended tires for Mercedes-Benz vehicles include Bridgestone, Continental, Dunlop, Goodyear, Michelin and Pirelli.