

# Michelin Technical Bulletin

November 14, 2017

## ADDITIVE “BLOOM” ON TIRES

The purpose of this communication is to explain the presence of a milky white discoloration, also known as Additive Bloom, on the surface of certain Michelin tires and treads. This bloom may be seen on tires during cold weather. **The presence of this bloom on the surface of the tread rubber has no impact on the safety or performance of the tire, and presents no hazard during handling of the tire.**

The bloom is a mixture of waxes and other additives used to provide tires with protection against oxidation and ozone degradation and to aid in tire production. The waxes and additives have the ability to migrate to the surface of the tire and back into the cured tire during usage and heating cycles.

The bloomed appearance will diminish when tires are placed in service, as the bloom will wear off the tread surface, and heat generated during the use of the tire will cause bloomed materials to migrate back inside the tire. Washing of the tires or contact with water will wash off water-soluble bloomed materials.



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