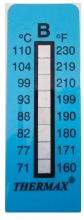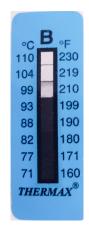# Bearing Temperature Indicator Strips for Locomotives and Rail Cars

Irreversible indication of excess bearing temperature provides early indication of bearing degradation and potential upcoming failure

Untriggered Strip

Triggered Strip

Strip applied to bearing cup

- Detects 8 different temperature levels between 160°F and 230°F (Other ranges and levels available upon request)
- Strips provide an irreversible temperature reading, providing a history of the highest temperature reached
- Available as Railcar or Locomotive kits which provide 2 strips per wheel to ensure visibility at all rotational angles and include cleaning suppliers, or bulk 1000 strip rolls
- Testing completed by MvX Rail, a Subsidiary of the Association of American Railroads, for efficacy and adhesion over a range of potential Railway conditions

Monitoring the working temperatures of railcar wheel bearings is one of the most effective methods in the prediction and prognosis of failures because it is an excellent indicator of bearing status. Excessive temperatures inside bearing casings directly leads to catalytic decomposition and oxidation of the lubricant which accelerates the degradation of the bearing until it locks or breaks.

Temperature indicator strips from ACS-RS are a perfect compliment to Hot-Box detectors and other active sensing systems. as the strips provide a permanent record, not just a snapshot, of bearing temperature. There's no setup, no activation, and no communication infrastructure to build. Simply stick these self-adhesive temperature measuring strips to the bearing cup, then maintenance technicians can perform regular temperature checks at a glance, just by noting whether their color has changed to black. When above-normal temperatures are recorded, the color change serves as a warning that the bearings inside are suffering excessive wear.

The indicator strips are manufactured by SpotSee, with over 50 years of experience in condition-based monitoring devices, SpotSee has product in use in similar Railroad applications in Brazil and China.