

## Motorsport Applications: Thermax® Labels

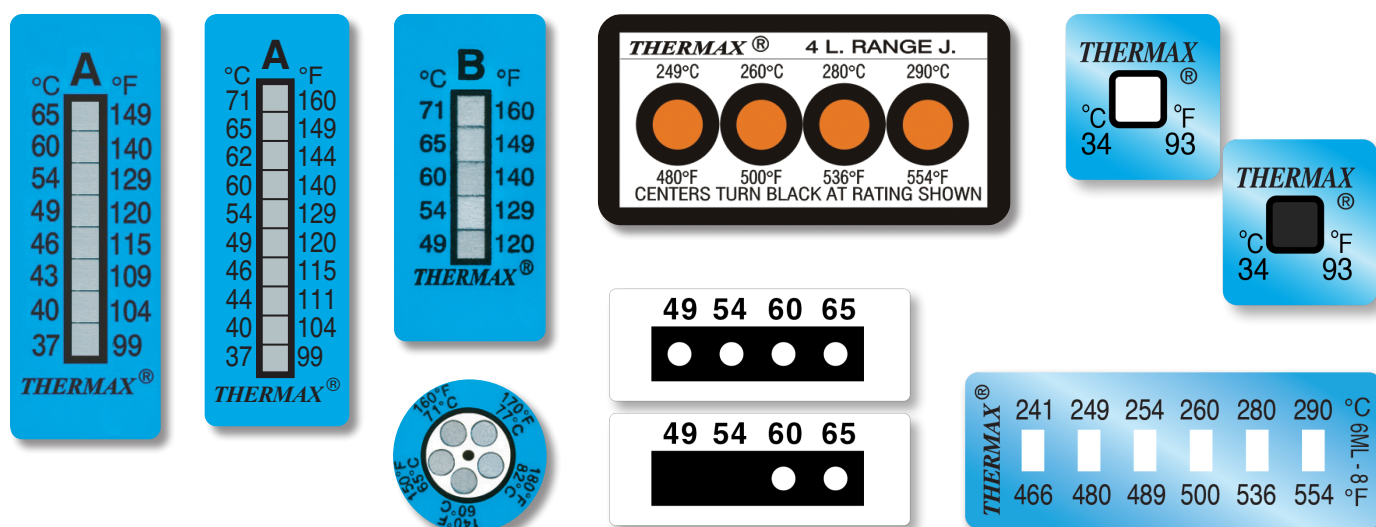


## Company Profile

**Industry:** Automotive

**Application:** Motorsport Racing

**Challenge:** Monitoring brake fluid degradation due to high temperatures.



## Thermax® Labels used on Race Brake Calipers

While the car is racing and trying to reach maximum pace, the brakes are often applied hard. The friction of the pads against the rotating discs then transfers heat to the calipers.

If the temperature reaches 250°C, the brake fluid may lose its non-compression status causing brake fade. If this occurs, the brake fluid should be replaced at the next pit stop.

The caliper is an ideal place for the Thermax® Label, as it provides a clear view of the brake fluid temperature.





### **Thermax® Labels used on Engine Cam Covers – Race Prepared Engines**

While working at maximum performance, the top half of the engine must be kept within safe working limits to prevent damage. Water moves around the engine to cool the components. However, this can cause boiling temperatures.

When the car is at the pit-stop, Thermax® Labels can be used to record the water temperature while in motion, giving a quick reference for the mechanics. These labels can also be used on radiator and cylinder heads.



### **Thermax® labels used on Shock Absorbers – Competition Shock Absorbers on Rear Axle**

Modified exhaust pipes, especially on turbo-charged cars, produce much hotter air that can possibly overheat the nearest shock absorber.

This can affect the vehicles handling and reduce up to one quarter of the car's suspension stability. Placing Thermax Labels on the lower casing will give a clear indication if this is happening during a race.



To learn more about Thermax with Motorsport applications, contact SpotSee.

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