

Managing Heat in Formula 1 Racing

Zircotec's range of proven thermal management solutions have been increasingly adopted by F1 engineers in 2010. Our latest ceramic coating technology has been used increasingly on

- * **BLOWN DIFFUSERS AND FLOORS** — extracting significant performance gains
- * **BRAKE COMPONENTS** - extending the life of ducts and 'cake tins'
- * **HEAT SHIELDS** — protecting bodywork and heat sensitive components

We are now offering alternative finishes to our coatings such as a heat reflective finish, heat resistive 'paint' finish and a smoother finish to minimise disruption to airflow.

Increases in vehicle weight led to higher brake temperatures and associated components. Our Performance Aluminium coating, suitable for composite parts, offers the opportunity to reflect and protect components from significant heat sources. Successfully proven in F1, we recently coated brake ducts for a Le Mans Series race team. Without our coating the components were suffering significant heat damage, whilst coated parts suffered no degradation after 1000KM with peak brake temperatures reaching 750°C. No degradation of the component also extends service life to lower costs.



For 2011 Zircotec will be offering pre-assembled multi layer ZircoFlex™. Offering very high levels of thermal protection with the benefit of being entirely flexible, ZircoFlex™ is a durable and effective solution for surface temperature reductions of up to 64%. Pre-supplied in single, dual or triple layers, we aim to provide an optimum weight/performance derivative



Our new facility is fully on stream with simpler access procedures and rapid turnaround of components, including our 24 hour express service. With three large booths, big enough to take entire floor sections, we are able to support a far wider of range of requests, including anti-abrasion and conductivity coatings.

For technical support for your specific application, please contact
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