

High performance coating for racing applications from Go-Karts to Formula 1

The advantages of thermally sprayed coatings are already bringing winning results to high performance racing. These coatings are applied to components where protection from overheating, minimizing material wear and corrosion or reducing friction between moving parts is crucial. Typical racing components protected by thermally spray coatings are cylinder heads, valves, exhaust manifolds, transmission components and cylinder walls.

While this coating technology has been available for some time, Oerlikon Metco continues to develop and optimize the technology further.

Specifically, the coating of cylinder walls for friction reduction and the associated increase in performance is now widespread and has established itself in practically all racing categories.

The performance of these coating systems has convinced reputable engine manufacturers and racing teams. This is why Oerlikon Metco coatings can be found in high performance engines for Go-Karts, Superbikes, MotoGP, GP2, Formula 1 and NASCAR.

These cylinder wall coatings are offered on the market by Oerlikon Metco under the SUMEBore brand. Besides racing applications, these coatings are now also used in engines for cars, trucks and large ships.

The coatings are applied by RotaPlasma™, a rotating plasma spray device developed by Oerlikon Metco. Coating powder materials are available in a number of compositions for application flexibility and freedom. SUMEBore coatings are presently offered by our plant in Wohlen, Switzerland to serve the European market and Westbury NY, U.S.A. to serve the Americas.

Interested?

For additional information please visit:
www.oerlikon.com/metco



Coated cylinder liner with piston for the Vampire Go-Kart engines by Suter Racing

