THE TRACK IS YOUR ROAD
The state of the art technology and high performance levels of the latest sports vehicles which take to the track are enhanced by Pirelli when the new point of contact, linking the thrill of your drive with the track itself, is the P Zero™ Trofeo R or P Zero™ Trofeo. Two innovative ultra-low-profile tyres, intended mainly for track use, on dry surfaces: the enjoyment of driving reaches new heights, whilst active and passive components combine to ensure safety, even when pushed to the limit.
The benefits of P Zero™ Trofeo and P Zero™ Trofeo R:
> highly-effective grip on the track
> maximum precision when approaching bends
> exceptional lateral rigidity for extreme cornering
> precise steering response
> constant trajectories.
In extreme use on the racetrack or on the road, you’ll recognise P Zero™ Trofeo R and P Zero™ Trofeo’s design qualities: excellent grip in bends, acceleration and braking, always ensuring driver safety. These results are due to manufacturing solutions which have increased structural resistance for the extreme use of tyres: here the work carried out by Pirelli on the single components is significant.

**Structure**
Here racing experience has played a key role as shown in the differentiation between the rigidity of the steel belts/zero degree between the rear tyre – for greater cornering stiffness – and the front tyre, which benefits from a wider contact area; in an all-around application, the materials benefit from greater rigidity, to guarantee dimensional stability at high speed. There are also innovations in the manufacturing process, for an even distribution of tension between the elements limiting centrifugal forces at high speeds: crucial for constant footprint area and distribution of the contact pressures in conditions of stress. Furthermore the bead geometry and materials make the connection to the rim more stable during acceleration and braking.

**Profile**
The contact area has been innovatively redesigned to give a greater contact area than the previous product and more uniform pressure distribution to ensure better grip, more even wear and driving comfort.
Pirelli’s dedication to green performance

The challenge: creating a balance between extreme performance and respect for the environment. An ambitious project that has drawn on Pirelli’s knowledge and experience to achieve green performance in the latest generation of tyres – P Zero™ Trofeo R and P Zero™ Trofeo.

And the difference is in the detail.

P Zero™ Trofeo R and P Zero™ Trofeo use only HAOF (Highly Aromatic Oil-Free Compounds) and reduce noise levels both in and outside the car: a result which has been obtained by developing “racing” tyres with a tread pattern similar to that of the most developed road tyres – central ribs and longitudinal grooves – and working on the offsetting of transversal grooves, and on the layout of the shoulder blocks.
Maximum expression of power

The design features of both tyres have enabled Pirelli to satisfy the demands of the market’s most powerful vehicles, without compromise. In particular, P Zero™ Trofeo R improves the technical specifications of the latest state-of-the-art vehicles, managing raising the bar as far as performance is concerned.
**Inner area**
Longitudinal grooves to assist with water expulsion. Transverse grooves with special pattern to provide constant traction and assist braking.

**Central area**
Smaller rib and wider, “solid” tread blocks: a technical solution designed to increase the contact area improve stability at high speed and ensure even wear without affecting long-term performance.

**Outer area**
Solid shoulder similar to a slick but more rigid to maximise lateral grip when cornering at very high speed and quickly changing trajectory on the track whilst maintaining complete control. This special mix of shape/functionality has enabled the achievement of very consistent performance.
The new P Zero™ Trofeo R (R=Race) is designed to provide even greater performance – when used on Track days – where fitted to some of the most powerful vehicles, BMW, Ferrari, Lamborghini, Maserati, Porsche, for example.

New HAOF compounds and a redesigned tread pattern have produced extraordinary results: on one hand there is a notable improvement in stability and lateral grip in the dry and on the other, a reduction in wear of up to 80%. The tyre allows drivers to push to the limit, improving the overall driving experience. With P Zero™ Trofeo R you can really appreciate how a high-powered vehicle performs, especially when on the track.
Compounds
As well as its environmentally-friendly HAOF characteristic, the brand new P Zero™ Trofeo R compound formula offers steering precision and grip at the high operating temperatures associated with track use and guarantees long-term effectiveness. Consequently there are visible benefits to tread wear.

The attention paid by Pirelli designers to the P Zero™ Trofeo R tread pattern’s void ratio has led to a further increase (+5%) in the size of the contact area. This achievement is particularly noticeable in cornering, where grip increases, and in reduced overall wear despite extreme use.
The asymmetrical tread pattern has two wide central ribs and large regular blocks. The inner area has greater groove density, whereas the outer area is derived from asphalt rally technology. The P Zero™ Trofeo is unique in the geometry of the tread pattern, which has been calculated to the millimetre.

In front (for cars with different sections on the axles) and all-around fitments, the longitudinal grooves in this zone have greater width with respect to the rear tyre.
Pirelli has developed new formulas for **P Zero™ Trofeo**, in order to maintain high performance over longer time periods in the presence of very high thermal stresses. The perfect balance between tyre safety and mileage.
SAFETY WARNING: danger may result from improper use. Follow tyre manufacturer’s instructions. Refer to car manufacturer’s recommendations with respect to tyre fitments for each model.

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Specific conditions of use for P Zero Trofeo R

ROAD USE
Before fitting a tyre, check that the product selected is homologated to the technical specifications of the vehicle and responds to all relevant and applicable legislation in the country concerned. In some countries, the only legally recognized tyre fitment for a vehicle is that reported in the vehicle technical manual as provided by the vehicle manufacturer.
For correct tyre inflation pressure always follow vehicle manufacturer recommendations. This information is reported in the vehicle technical manual and sometimes on a sticker inside the front door or fuel tank cover.

TRACK USE
- **Pirelli Trofeo R** has been developed to provide even greater performance on the occasion of race track days when fitted to the most powerful vehicles, enabling to fully appreciate the performance of extreme vehicles in complete safety, especially on the race track. In extreme conditions, typical of race track driving, it reacts with precision to the drivers commands. On dry asphalt, even in the most demanding sessions it ensures high levels of grip and constant trajectories
- For maximum performance and safety on a circuit, first make sure that the vehicle itself is in perfect working order, particularly in respect to brakes, steering and suspensions. Most modern cars can be driven on a circuit without significant modification, though for sustained circuit driving, for example on a track day, it is recommended that the brake pads be changed to a competition version so as to withstand the extra heat generated by the constant use that circuit driving demands. The ultra hard and constant braking and acceleration used in circuit driving is the principal reason for using tyres like **P Zero™ Trofeo R** and **P Zero™ Trofeo**, rather than a standard tyre.
  These tyres can withstand constant hard use and the high temperatures generated, delivering perfect lap times, lap after lap.
- **Tyre Set-up for Circuit Driving.** Having quite a stiff construction, **P Zero™ Trofeo R** and **P Zero™ Trofeo** do not necessarily need extra pressure to deliver performance. In fact they are designed to run at pressures around 2.2 bar (“hot” tyres), the finite adjustments depending on vehicle type.
  Critical to understanding the set-up is to appreciate that this pressure is the ‘operating pressure’ of the tyre when it is fully warmed up to working temperature and that the difference in temperature between ‘hot’ and ‘cold’ tyres can be very significant, typically 0.5 bar.
  Set-up procedure: set the tyre pressures when cold to approximately 0.4 bar (6lbs/sq.ins) less than the required operating pressure. Drive the car on the circuit for 3-4 laps to bring the tyres up to temperature, re-enter the pit-lane and immediately re-set the pressures to the required operating pressure. Continue to check the ‘hot’ pressures during continued use on the circuit if that is possible.
  Pirelli recommends the use of normal compressed air (preferably dry) to inflate the tyre, providing the above procedures are followed. Specialist gasses such as nitrogen are not required unless the air source suffers from excessive contamination of humidity.
  Always use a high quality air pressure gauge for consistent results. The use of metal rather than rubber valve stems is recommended as these are more resistant to high temperature.
  After race track use, before leaving the circuit and after the tyres have cooled down, DO NOT FORGET TO RE-SET TYRE PRESSURES TO THE STANDARD INFLATION PRESSURES AS RECOMMENDED BY THE VEHICLE MANUFACTURER.

NB: Purchasers of Pirelli Trofeo R tyres are required to sign an “Acknowledgement of Risk” document which confirms that:
  i. The purchaser understands that he/she is purchasing a specific competition race performance Pirelli tyre.
  ii. The purchaser has been advised of and understands the use instructions and warnings provided [ie. Specifically related to potential reduced life (tread wear), traction or performance of the tyre].
  iii. The purchaser accepts and acknowledges the associated potential risk.
Attention! The track is your road, but remember, roads are not racetracks!

Whilst Pirelli P Zero Trofeo R tyres are approved for road use you must always follow local highway legislation and exercise common sense when driving.

P Zero Trofeo R tyres are competition orientated and designed specifically for serious performance enthusiasts and specially performance vehicles. Building on Pirelli’s racing tyre knowledge, P Zero Trofeo R tyres feature a softer racing performance inspired tread compound optimized for on-track performance while meeting legal requirements for road use. The delicate balance in design of Pirelli Trofeo R tyres provides for enhanced performance, cornering and braking in certain conditions, surfaces and environments while presenting limited performance in specific conditions such as rain, ice, snow and cold weather, leading to associated potential hazards, thus ATTENTION:

• The use of P Zero Trofeo R tyres is NOT RECOMMENDED for road use or track use in wet conditions as there is a risk of aquaplaning. In wet conditions, drivers must proceed with extreme caution and reduce speed significantly, especially in the presence of standing water or in the case of heavy rain, even stopping the vehicle if necessary.
• The use of P Zero Trofeo R tyres is NOT RECOMMENDED for road use or track use when the ambient temperature falls below 7°C. The grip of the P Zero Trofeo R tyres reduces considerably when operated in low temperature conditions.
• As with all sports application tyres, P Zero Trofeo R tend to wear faster than standard tyres, with relative reduction in mileage capability.

In-car safety equipment

Before taking your car out on a circuit it is most important to take professional advice regarding car preparation and the installation of specialised safety equipment. For example, it is essential for circuit driving to install a ‘full harness’ safety belt with ‘quick release’ fittings. This equipment will hold the driver firmly in the seat (which itself must be checked for secure mounting); an essential feature in the event of an accident but also highly desirable during hard cornering and braking.

The effectiveness of the seat harness can be further enhanced by the use of a racing style seat, giving added lateral support to hold the driver in place during hard cornering. It is advisable to foresee the use of the roll bar.

Other equipment such as roll-cage, fire extinguishers, etc may be considered necessary depending on the activity involved. Once again take professional advice as to what is required.

Driver safety equipment

Absolutely essential for any track driving is a good quality crash helmet. Other driver safety items are mainly fire retardant racing suit, boots and gloves. In all matters concerning driver safety equipment again take professional advice as to what is required for your personal choice of circuit activity.
POWER IS NOTHING WITHOUT CONTROL
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