

MOTORCYCLE

PRO RACING GP

ESTER+



ADAPTIVE
SHIELD
TECHNOLOGY



TECHNICAL BROCHURE

CHAMPION[®]
LUBRICANTS

PRO RACING GP

ESTER+



ADAPTIVE
SHIELD
TECHNOLOGY



TESTED TO THE EXTREME
SO YOU CAN
PUSH YOURSELF TO THE LIMIT

WHY CHAMPION PRO RACING GP?

Today's riders want more out of their motorcycle: higher performance, more control and protection from the engine's shearing forces. That's the reason why we have developed our innovative range of high performance motorcycle lubricants - after all, we are riders ourselves.

Fully synthetic engine lubricants with Ester+ Adaptive Shield Technology open up new horizons in terms of engine performance. Developed using the most advanced formulations on the market, Moto Pro Racing GP range has been tested to the extreme and validated with world motorcycle champions.

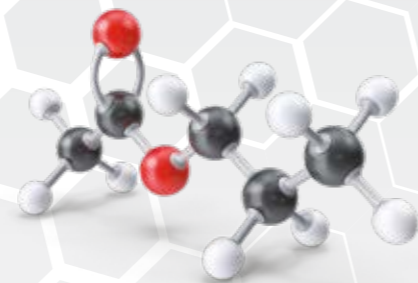
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WHY ESTER+?

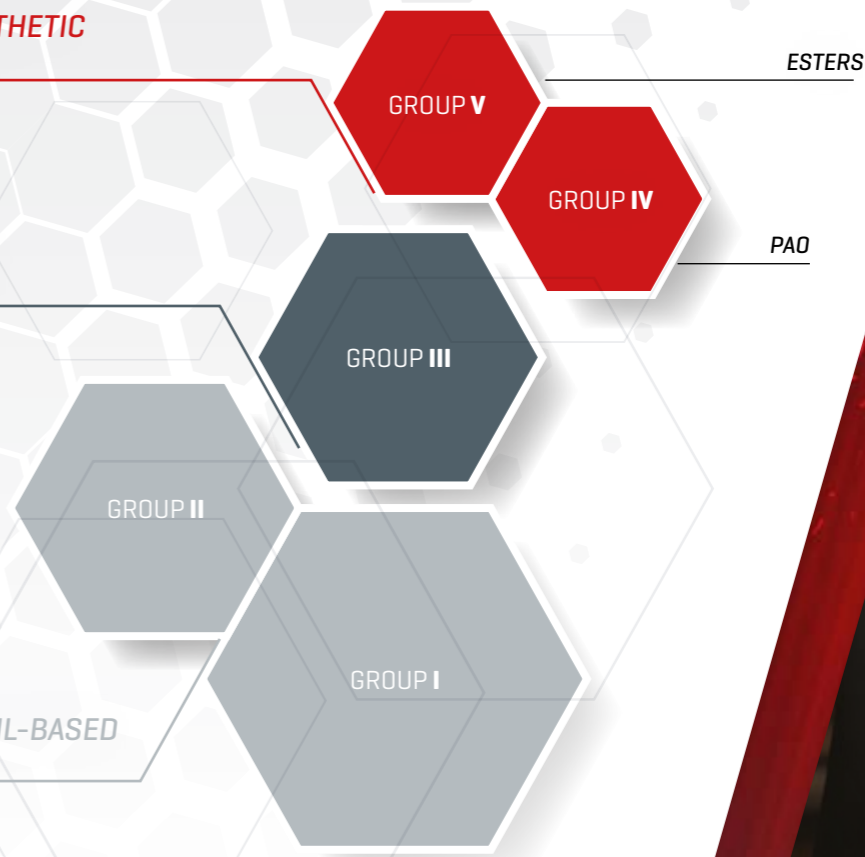


- + The Motorcycle Champion Pro Racing GP range uses **an optimized combination of the best performing Esters and other synthetic fluids.**
- + Esters require a precise and complex manufacturing process in order to offer a variety of properties such as **reduced oxidation, low evaporation loss, high viscosity index and friction control for extra power output.**
- + Super polar Esters are the ideal partner for the additives in the lubricant. They are attracted to metal surfaces and **provide a layer of protection so that an effective protective shield is formed against corrosion, abrasive and adhesive wear, extreme pressures and temperature.**
- + Champion Pro Racing GP **optimizes friction control in the wet clutch to reduce slippage while maintaining low friction values in the gearbox and the engine to provide extra protection and power output.**

FULLY SYNTHETIC
BASE OILS

SYNTHETIC
BASE OILS

MINERAL OIL-BASED
BASE OILS



PRO RACING GP

ESTER+



ADAPTIVE
SHIELD
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A UNIQUE ADDITIVE TECHNOLOGY

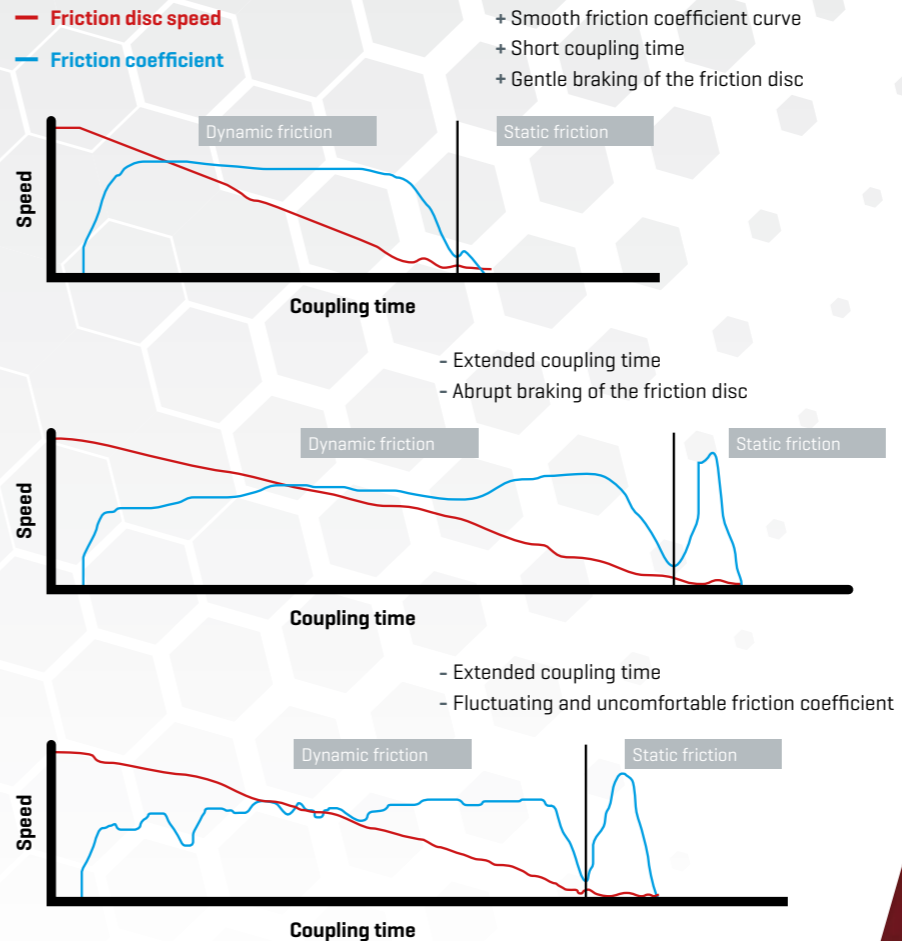
- + Performance characteristics that exceed the latest **industry standards in order to provide greater performance and engine life duration.**
- + **Exceptional clutch friction control** to reduce wear.
- + **Excellent protection** against engine and gearbox wear.
- + **Unsurpassed engine cleanliness** that provides stable engine performance and protects against damage and overheating.
- + **Additional performance boost** thanks to an additive that reduces internal engine friction thereby providing greater power output whilst achieving higher fuel economy.
- + **High strength oil film** protects against bearing and cylinder wear.
- + **High shear stability at high temperatures** ensure a protective shield in racing conditions when components such as bearings and gears are heavily loaded.
- + **Low pour point** to allow immediate lubrication during cold start ups and reduce wear.



STABLE AND OPTIMIZED FRICTION COEFFICIENT

- + **The right friction on the right component** is the key to proper engine and transmission performance.
- + **The sliding friction in the clutch is important** as it determines how fast the clutch discs can synchronize and transmit the power.
- + **A high sliding friction value reduces the shifting time** and minimizes the energy input into the lubricant.
- + This must also have the ability **to form a low sliding friction coefficient in bearings, gears and between others moving parts like pistons.**
- + A stable friction coefficient over the drain interval ensures **consistent clutch performance**, smooth ride and constant power at the rear wheel.

Champion Motorcycle lubricant with Ester+ Adaptive-Shield Technology demonstrates high friction performance under real-world conditions over many shift cycles and maintains demanding JASO MA2 friction performance until the end of the test!



CHAMPION MOTORCYCLE LUBRICANTS



EXTENDED GEARBOX PROTECTION

- + **Protecting the gearbox against gear wear** and pitting is mandatory for high performance motorcycle lubricants used in the toughest conditions.
- + Our technology partner has modified the **FZG gear wear test** to take into account the loads and speeds of a motorcycle in race track conditions.

Champion motorcycle lubricant with Ester+ Adaptive-Shield Technology has a better gear wear pattern and lower wear ratings than many OEM and premium motorcycle lubricants.



Champion Motorcycle lubricant with Ester+ Adaptive-Shield Technology can show a better gear bearing pattern and lower wear values than many original OEMs and premium motorcycle lubricant brands on the FZG industry reference benchmark test.

Photo: ISP Salzbergen GmbH & Co. KG



UNSURPASSED ENGINE CLEANLINESS

To maintain performance and fuel economy over time, it is important for a motorcycle lubricant to maintain engine cleanliness:

- + Avoidance of **piston deposits**
- + Avoidance of **sludge deposits**
- + Avoidance of **varnish**
- + Reduced **oil consumption**

Champion motorcycle lubricant with Ester+ Adaptive Shield Technology:

- + **Minimisation of deposits and sludge formation.**
- + Better than average **piston and cylinder wear ratings** compared to benchmarked OEMs and premium lubricants brands.
- + Prevents the accumulation of **deposits on piston rings and in piston grooves**, meaning lower oil consumption compared to the lubricants that were benchmarked.



HIGHLY EFFECTIVE CORROSION PROTECTION

Full corrosion protection is important for the lifespan of the engine:

- + This is becoming a key parametre as lubricants move to **lower viscosity grades**.
- + **Bearings are often made of soft metals**, that are exposed to chemical attacks as the lubricant ages.
- + Highly effective **esters combined with other synthetic base stocks and additives form an effective protective shield**, which minimizes chemical attacks and wear.

Champion motorcycle lubricant with Ester+ Adaptive Shield Technology ensures excellent bearing and corrosion protection during the engine test and in practice!



Make sure you use the world's most advanced range of motorcycle lubricants.

www.championmoto.com

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LUBRICANTS