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***F-100***

***The Special Gasoline by San  
Marco Petroli***



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***Special Gasoline: enhanced fuel quality  
compared to standard gasoline (Spec. EN 228)***

***The consumer must identify the product as  
something useful and innovative, and be able to  
perceive the improvements***

***and in particular the reduction of consumption  
and/or performance enhancement.***



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***THE ITALIAN MARKET***

***2 RON 100 gasolines***

***4 RON 98 gasolines  
(Large Groups)***

***Various RON 98 gasolines  
(Small Independent Retail)***

***Real consumption: ~300.000 m<sup>3</sup>/year***

***(results 2,5 %, but the total gasoline consumption is increasing)***



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***Based on these assumptions SAN MARCO PETROLI  
has developed***

***A special new generation gasoline,  
unique and nearly unreplicable.***



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***"FORMULA 100"***

***A multifunction technology which  
allows the sale of gasoline with  
more advanced features compared  
to conventional NW 95 gasoline and  
other special gasolines.***



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## **Formula 100 Main Upgrades**

**Improves the anti-knocking gasoline properties, even in terms of actual road octane number.**

**Reduces friction and wear limits, particularly between cylinder and pistons.**

**Runs a keep-clean and clean-up of the fuel system, including injectors.**

**Protects against corrosion.**



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***Formula 100* FUNCTIONS**

**Increases the octane quality**

**Reduces friction and wear limits**

**Runs a keep-clean and clean-up of the fuel system**

**Protects against corrosion and oxidation**



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## **Benefits of enhancing OCTANE NUMBER**

- The high octane quality meets the needs of every type of octane vehicle ignition engines and in particular after the knock sensor release.
- Significant advantages especially for new engines as well as those equipped with the so-called "prestige car".
- Even the oldest of engines can benefit as the accumulation of deposits in the combustion chamber increases the octane requirement (elevated ONRI) that the conventional gasolines are not able to satisfy.
- Allow performance enhancement of two-wheeled vehicles, particularly those with high power output.





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## ***Formula 100* FUNCTIONS**

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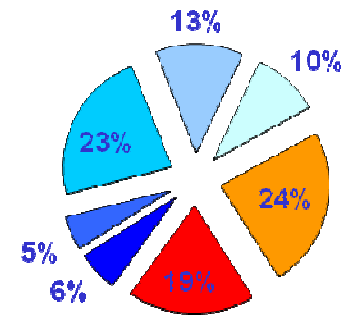
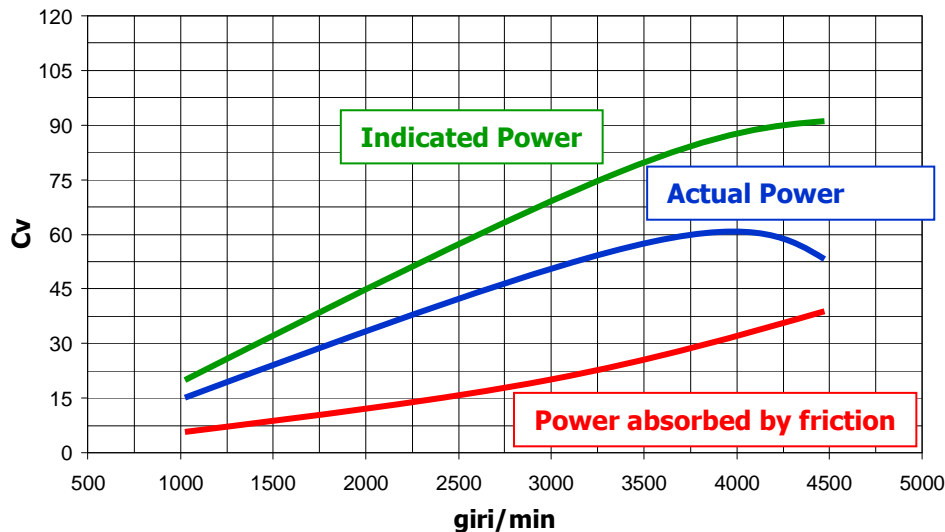


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## THE ROLE OF INTERNAL FRICTION

- ❖ Friction is one of the principle causes of energy dispersion
- ❖ The contact area between pistons and piston rings is particularly critical
- ❖ Emissions regulations have led to a progressive reduction in the piston oil film



- Treno Valvole
- Albero a camme
- Organi di trasmissione
- Cuscinetti di banco
- Cuscinetti di biella
- Pistone

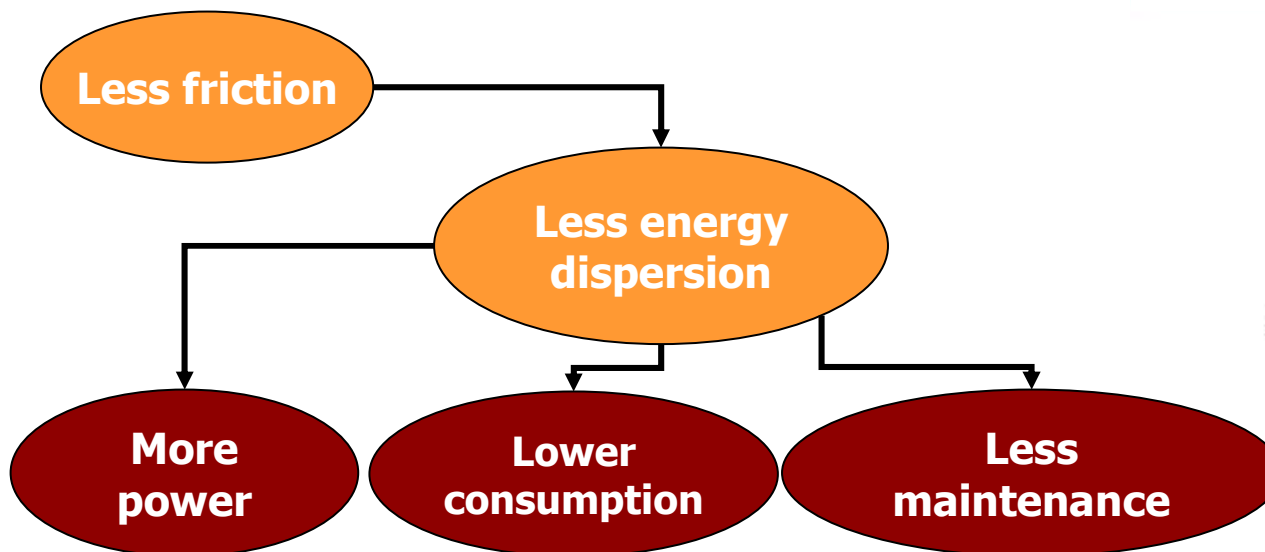
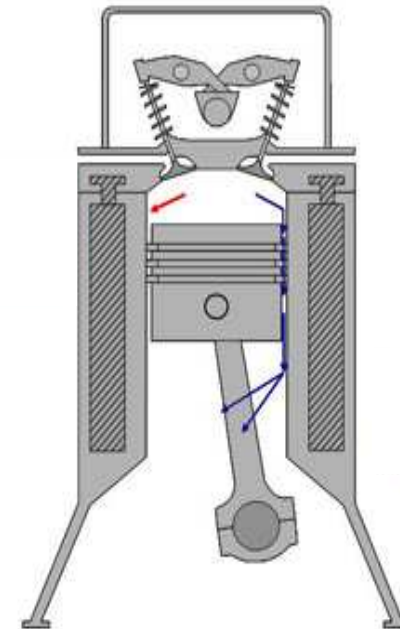


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## *Formula 100* ANTIFRICTION FUNCTION

- ❖ Increased engine efficiency
- ❖ Long-term benefits due to the synergy generated by the engine oil





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## ***Formula 100* FUNCTIONS**

**Increases the octane quality**

**Reduces friction and wear limits**

**Runs a keep-clean and clean-up of the fuel  
system**

**Protects against corrosion and oxidation**

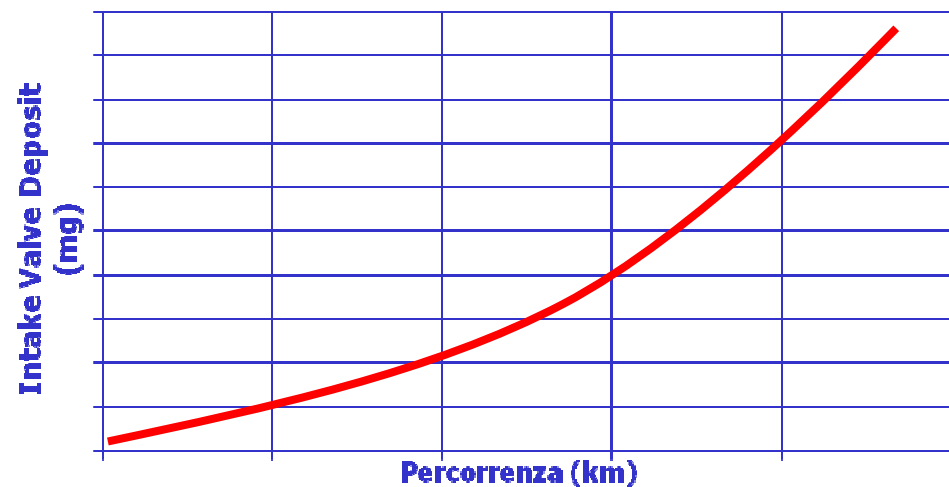


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## FUEL SYSTEM CLEANING

- ❖ The formation of deposits in the fuel system is a known problem
- ❖ The valves, in particular, are sensitive to such phenomena because of the conditions to which they are subject
- ❖ The main consequences are:
  - Loss of power
  - Increased consumption
  - Increased emissions
  - Worse driveability





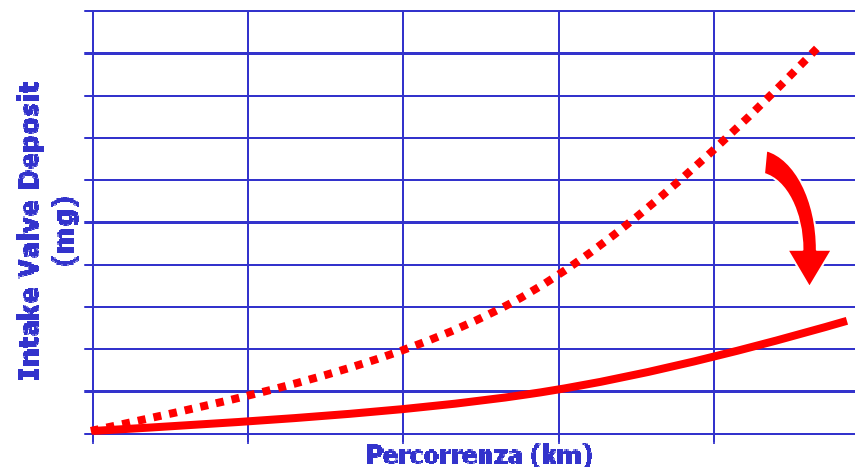
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## *Formula 100* **CLEANING FUNCTION**

**Formula 100** guarantees a double result:

- ❖ Removes any already-existing deposits, returning it to the engine's operating condition (clean up)
- ❖ Maintains the fuel system clean, including the most crucial parts such as valves (keep clean)





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## ***Formula 100* BENEFITS**



**Increased performance, particularly in terms of acceleration and recovery**

**Reduction of fuel consumption**



**Reduction of pollutant emissions with a significant effect on greenhouse gases (CO<sub>2</sub> e NO<sub>x</sub>)**

**Reduction in maintenance costs**

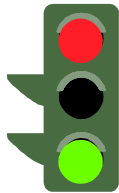




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## PERFORMANCE ENHANCEMENT



**20''**



***500 meters***



***480 meters***



***450 meters***



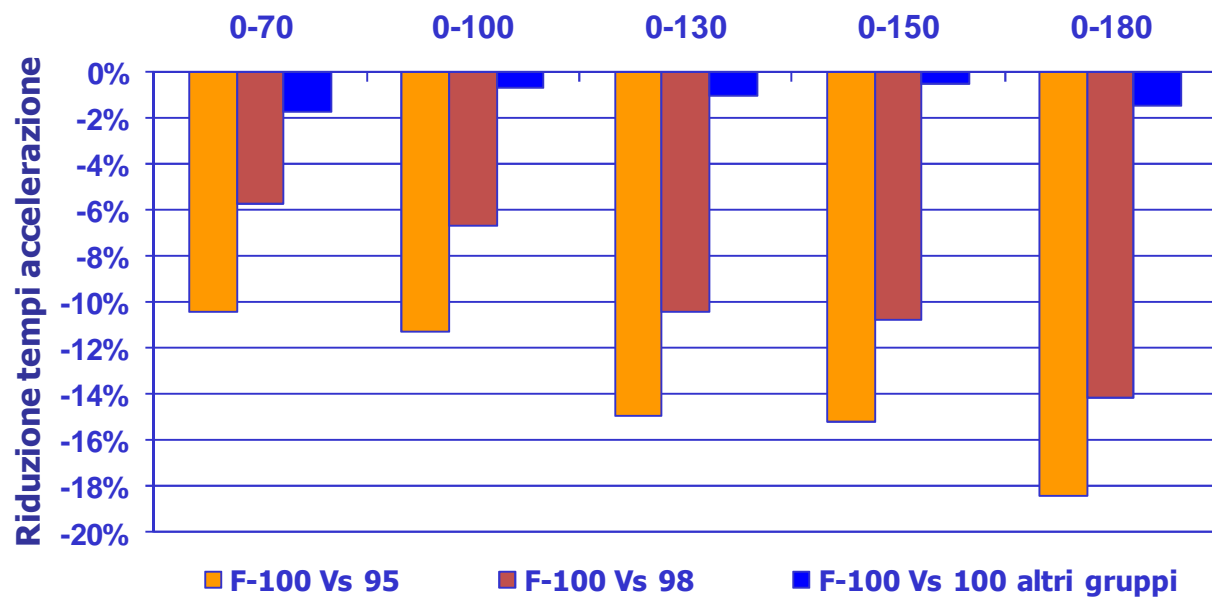


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# PERFORMANCE ENHANCEMENT

**Reduction of acceleration time  
At a stop**





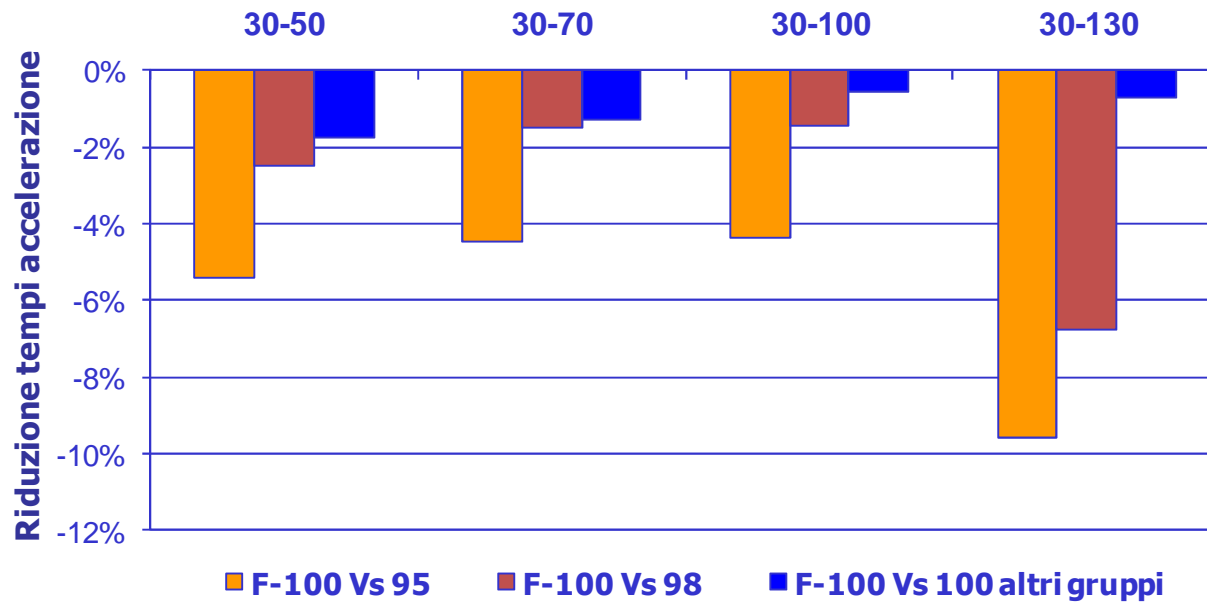
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# PERFORMANCE ENHANCEMENT

Recovery time reduction

Acceleration at 30 km/h





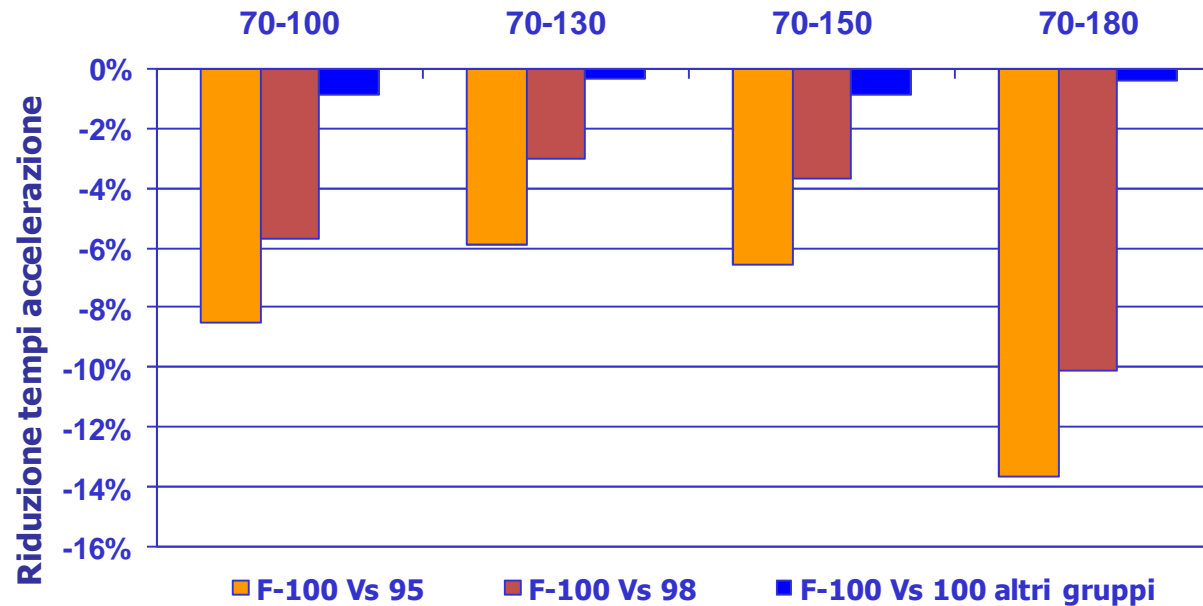
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# PERFORMANCE ENHANCEMENT

Recovery time reduction

Acceleration at 70 km/h





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## **REDUCTION OF CONSUMPTION**

***Formula 100* consumption differences Vs gasoline 95/98: -5%**

**An advantage not only for the consumer, but for the environment as well.**





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Reduce CO<sub>2</sub>?



Or use  
SAN MARCO  
PETROLI'S  
Formula 100