



ELF HTX 3818 5W-30

100% synthetic lubricant for competition engines



Uses

- **ELF HTX 3818** is a multigrade lubricant designed for 4-stroke petrol engines.
- **ELF HTX 3818** is specially designed to obtain maximum engine power over short and/or very short runs.
- **ELF HTX 3818** is especially recommended for short, intense races where maximum performance is sought such as sprint circuit and qualifying races.
- Directly based on ELF experience in Formula 1 and Motorcycle GP, the **ELF HTX 38xx** range is particularly used for developing and running engines in Motorcycle GP, Superbike and Formula 3.
- **ELF HTX 3818** is used for the following applications:
 - 4-stroke naturally-aspirated and turbocharged petrol engines, up to 19,000 rpm and more
 - Motorcycle 4-stroke transmissions
- **ELF HTX 3818** is perfectly suited for competitions of short and very short duration:
 - Sprint circuit
 - Qualifying races
 - Hill climb races

Characteristics

	Typical values	Units	Methods
Density at 15°C	0.8528	g/ml	ASTM D-1298
Viscosity at 40°C	75.57	mm ² /s	ASTM D-445
Viscosity at 100°C	12.38	mm ² /s	ASTM D-445
Viscosity HTHS	3.67	mPa.s	ASTM D-4741
Flash point	> 220	°C	ASTM D-92

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ELF HTX 38xx

ELF HTX 3818 is miscible in any proportion with **ELF HTX 3821** (0W-30), **ELF HTX 3825** (0W-20), **ELF HTX 805** (5W-50), **ELF HTX 825** (10W-60) and **ELF HTX 835** (15W-40).

ELF HTX 3818, **ELF HTX 3821** and **ELF HTX 3825** are primarily performance-gear lubricants.

In the ELF HTX 38xx range, **ELF HTX 3818** is the most robust in terms of ultra fluid grade.

For greater protection (longer use), we recommend the **ELF HTX 8xx** range.

Properties

CHARACTERISTICS	→	TECHNICAL GAINS	→	ENGINE BENEFITS
Low viscosity (5W-30)	→	Serious reduction in frictional loss	→	Maximum power over entire speed range
Reversible high shear viscosity (HTHS)	→	Less energy wasted through viscous friction	→	Spontaneous power gain at high and very high speeds
Addition of specific frictional modifiers	→	Molecular adsorption on moving mechanical parts Excellent lubrication under high and very high speeds	→	Maintains engine lubrication conditions to give maximum performance at high and very high speeds

Recommendations

- **ELF HTX 3818** works perfectly up to 19,000 rpm.
- **ELF HTX 3818** is particularly suited to sprint races held over a weekend where the driving time does not exceed **four hours**.

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- Due to its ultra fluid grade, it is recommended to carefully monitor mileage between each **ELF HTX 3818** oil change.
- Compatibility with the materials of the lubrication circuit:
 - No known incompatibility to date
 - Compatible in particular with silicon, fluorine, acrylic and nitrile type joints
- There is no specific precaution to take on first use of **ELF HTX 3818** other than removing the previous lubricant and replacing the oil filter.
- The use of an external additive (like engine remetalling) is not recommended.

Storage

To preserve its original properties, **ELF HTX 3818** must be handled and stored away from extreme weather conditions. The can must be carefully closed again after each use.

Glossary

100% SYNTHETIC:

Unlike certain lubricants on the market bearing the synthetic label, **ELF HTX 3818** really contains no mineral base.

SHEAR:

Distortion of lubricant when subjected to high speeds and loads.

VISCOSITY HTHS (High Temperature/High Shear):

Viscosity measured at High Temperature (150°C) and High Shear (10^6 s^{-1}).