



ELF HTX 850 5W-50

100% synthetic lubricant for competition engines



Uses

- **ELF HTX 850** is a multigrade lubricant specially developed for 4-stroke petrol engines working at a wide range of temperatures.
- **ELF HTX 850** offers the high protection properties of a 5W-50 grade and performance gains due to its improved formulation.
- **ELF HTX 850** is used for the following applications:
 - 4-stroke naturally-aspirated or turbocharged petrol engines
- **ELF HTX 850** is perfectly suited for competitions of medium duration:
 - Circuit
 - Rally

Characteristics

	Typical values	Units	Methods
Density at 15°C	0.8542	g/ml	NF EN ISO 12185
Viscosity at 40°C	105.8	mm ² /s	ASTM D-445
Viscosity at 100°C	17.9	mm ² /s	ASTM D-445
Viscosity HTHS	4.48	mPa.s	CEC L-036
Flash point	238	°C	NF EN ISO 2592



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Properties

Characteristics	→	Technical gains	→	Engine benefits
High viscosity (5W-50), suited to a wide range of functioning temperatures	→	Excellent lubrication of engine parts when hot or cold	→	Excellent protection of mechanical moving parts
Reversible high shear viscosity (HTHS)	→	Less energy wasted through viscous friction	→	Spontaneous power gain at high and very high speeds
Optimized formulation matrix	→	High de-airing capacity	→	Perfect lubrication of mechanical parts Greater compatibility with dry sump type technologies
Addition of specific frictional modifiers	→	Excellent lubrication at high and very high speeds	→	Maintains engine lubrication conditions to give maximum performance at high and very high speeds
detergency additive	→	Cleans and keeps clean all shells, pistons, segments	→	Maintains initial engine power perfectly
anti-wear additive	→	Adsorption on metal areas subject to very high pressure like tappets, cams and bearings	→	Greater engine protection with impeccable reliability
Dispersion surfactant	→	Carbonaceous matter kept in suspension	→	Reduces clogging of filters
Full synthetic , mineral base content strictly zero	→	Increase in thermal resistance	→	Reliability gain



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ELF HTX 8xx

ELF HTX 850 is miscible in any proportion with the whole 4-stroke engines lubricants ranges **ELF HTX 8xx** and **ELF HTX 38xx**.

If the user is already satisfied with **ELF HTX 850 (5W-50)** in terms of mechanical wear, we suggest trying **ELF HTX 840 (0W-40)** or **ELF HTX 830 (0W-30)**, for even better performance.

If the user is planning to introduce harsher conditions of use, we recommend **ELF HTX 860 (10W-60)** for even greater reliability.

Recommendations

- No known incompatibility of the lubrication circuit 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 850** 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 850** must be handled and stored away from extreme weather conditions. The can must be carefully closed again after each use.

Glossary

For any further information relative to the technical aspects written in our Data Sheets, a glossary is on line on our website www.acs.total.com, racing fuels and lubricants section.

