



# 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 <sup>2</sup> /s	ASTM D-445
Viscosity at 100°C	17.9	mm <sup>2</sup> /s	ASTM D-445
Viscosity HTHS	4.48	mPa.s	CEC L-036
Flash point	238	°C	NF EN ISO 2592



*100% synthetic lubricant for competition engines*

**Properties**

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



*100% synthetic lubricant for competition engines*

## 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](http://www.acs.total.com), racing fuels and lubricants section.

