ELF HTX 840
0W-40

100% synthetic lubricant for competition engines

Uses

- **ELF HTX 840** is a multigrade lubricant specially developed for 4-stroke petrol engines.
- **ELF HTX 840** is designed for engine performance in runs of short and medium duration.
- Due to its level of viscosity when hot (W-40), **ELF HTX 840** reduces wear on moving mechanical parts.
- **ELF HTX 840** is used for the following applications:
  - 4-stroke naturally-aspirated and turbocharged petrol engines.
- **ELF HTX 840** is perfectly suited for competitions of short and average length:
  - Circuit
  - Hill climb
  - Rally

Characteristics

	Typical values	Units	Methods
Density at 15°C	0.8517	g/ml	NF EN ISO 12185
Viscosity at 40°C	74.88	mm²/s	ASTM D-445
Viscosity at 100°C	13.28	mm²/s	ASTM D-445
Viscosity HTHS	3.66	mPa.s	CEC L-036
Flash point	242	°C	NF EN ISO 2592

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Properties

Characteristics	→	Technical gains	→	Engine benefits
Relatively high **viscosity** (0W-40)	→	Rapid **lubrication** of engine parts Excellent heat evacuation	→	**Mechanical parts protected by oil coat** **Lowers temperatures at piston top**
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**

ELF HTX 8xx

ELF HTX 840 is miscible in any proportion with the whole 4-stroke engines lubricants ranges **ELF HTX 8xx** and **ELF HTX 38xx**.

In the ELF HTX 8xx range, **ELF HTX 840** is a performance-geared lubricant.

For even more significant power gains for short and/or very short runs, we recommend the **ELF HTX 830 (0W-30)**.

Recommendations

- **ELF HTX 840** works perfectly up to 13,000 rpm.
- 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 840** 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 840** 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.