



ELF HTX 835

15W-40

100% synthetic lubricant for competition engines



Uses

- **ELF HTX 835** is a multigrade lubricant specially developed for 4-stroke petrol engines.
- **ELF HTX 835** is designed for engine performance in runs of short and medium duration.
- Due to its level of viscosity when hot (W-40), **ELF HTX 835** reduces wear on moving mechanical parts.
- **ELF HTX 835** is used for the following applications:
 - 4-stroke naturally-aspirated and turbocharged petrol engines, up to 13,000 rpm.
- **ELF HTX 835** is perfectly suited for competitions of short and average length:
 - Circuit
 - Hill climb
 - Rally

Characteristics

	Typical values	Units	Methods
Density at 15°C	0.8535	g/ml	ASTM D-1298
Viscosity at 40°C	91	mm ² /s	ASTM D-445
Viscosity at 100°C	15.2	mm ² /s	ASTM D-445
Viscosity HTHS	4.0	mPa.s	ASTM D-4741
De-airing 75°C (volume of air absorbed)	1.7	% vol.	ASTM D-3427
Flash point	224	°C	ASTM D-92

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Properties

CHARACTERISTICS	→	TECHNICAL GAINS	→	ENGINE BENEFITS
Choice of synthetic reversible shear copolymer	→	Less energy lost through viscous friction	→	Spontaneous power gain
Relatively high viscosity (15W-40)	→	Rapid lubrication of engine parts Excellent heat evacuation	→	Mechanical parts protected by oil coat Lowers temperatures at piston top
Organic-metallic detergency additive and synthetic copolymer content optimised	→	Cleans and keeps clean all shells, pistons, segments	→	Maintains top performance throughout the run
Optimised formulation matrix	→	High de-airing capacity	→	Perfect lubrication of mechanical parts Greater compatibility with dry sump type technologies
Organic-metallic 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 on endurance
Mineral base content strictly zero	→	Increase in thermal resistance	→	Reliability gain

ELF HTX 8xx

ELF HTX 835 is miscible in any proportion with **ELF HTX 805** (5W50), **ELF HTX 825** (10W-60), **ELF HTX 3818** (5W-30), **ELF HTX 3821** (0W-30) and **ELF HTX 3825** (0W-20).

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In the ELF HTX 8xx range, **ELF HTX 835** is the most performance-gearred lubricant.

For even more significant power gains for short and/or very short runs, we recommend the **ELF HTX 38xx** range.

Recommendations

- **ELF HTX 835** 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 835** 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 835** 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 835** really contains no mineral base.

DE-AIRING:

Level of air the lubricant may absorb and capacity to eliminate it.

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}).