



# ELF HTX 3821 0W-30

*100% synthetic lubricant for competition engines*



## Uses

- **ELF HTX 3821** is a multigrade lubricant designed for 4-stroke petrol engines.
- **ELF HTX 3821** is specially designed to obtain maximum engine power over short and/or very short runs.
- **ELF HTX 3821** 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 3821** is used for the following applications:
  - 4-stroke naturally-aspirated and turbocharged petrol engines, up to 19,000 rpm
- **ELF HTX 3821** is perfectly suited to competitions of short and very short duration:
  - Sprint circuit
  - Qualifying races
  - Hill climb races

## Characteristics

	Typical values	Units	Methods
Density at 15°C	0.8493	g/ml	ASTM D-1298
Viscosity at 40°C	50.42	mm <sup>2</sup> /s	ASTM D-445
Viscosity at 100°C	9.285	mm <sup>2</sup> /s	ASTM D-445
Viscosity HTHS	2.86	mPa.s	ASTM D-4741
Flash point	> 220	°C	ASTM D-92

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### ELF HTX 38xx

**ELF HTX 3821** is miscible in any proportion with **ELF HTX 3818** (5W-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-geared lubricants.

In the ELF HTX 38xx range, **ELF HTX 3821** offers another level of performance in relation to **ELF HTX 3818** without lowering the level of protection of mechanical parts.

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

### Properties

CHARACTERISTICS	→	TECHNICAL GAINS	→	ENGINE BENEFITS
Very low <b>viscosity</b> (0W-30)	→	Serious reduction in <b>frictional loss</b>	→	<b>Maximum power over entire speed range</b>
Reversible <b>high shear viscosity</b> (HTHS)	→	Less <b>energy wasted</b> through viscous friction	→	<b>Spontaneous power gain at high and very high speeds</b>
Addition of specific <b>frictional modifiers</b>	→	Molecular <b>adsorption</b> on moving mechanical parts 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>
Organic-metallic <b>anti-wear</b> additive	→	<b>Adsorption</b> on metal areas subject to very high pressure like tappets, cams and bearings	→	<b>Maintains very good level of protection</b>

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### Recommendations

- **ELF HTX 3821** works perfectly up to 19,000 rpm.
- **ELF HTX 3821** is particularly suited to sprint races held over a weekend where the driving time does not exceed **four hours**.
- Due to its ultra fluid grade, it is recommended to carefully monitor mileage between each **ELF HTX 3821** 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 3821** 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 3821** 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 3821** 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 ( $10^6 \text{ s}^{-1}$ ).