



# ELF MOTO<sup>4</sup> ROADSTAR 15W-50

4-stroke motor oil

## KEY DATA

- **4-STROKE MOTORCYCLE ENGINE OIL**
- **INTERNATIONAL STANDARDS**
  - ✓ **API SN**
  - ✓ **JASO MA2**
- **SEMI-SYNTHETIC**
- **BENEFIT**
  - ✓ **IMPROVED POWER & ACCELERATION**
- **SAE 15W-50**

## APPLICATIONS

**ELF MOTO<sup>4</sup> ROADSTAR 15W-50** is a lubricant that is particularly recommended for all types of 4-stroke engine motorcycles, in compliance with the API SN and JASO MA2 international standards.

It is perfectly compatible with catalytic converters. The oil-change intervals recommended by the constructors and the minimum required viscosities must be complied with. This lubricant is compatible with lead-free fuels. This multi-purpose lubricant meets the severe requirements of urban traffic and long-distance runs.

**ELF MOTO<sup>4</sup> ROADSTAR 15W-50** is fortified with synthetic based oils, providing hydrodynamic lubrication and superior engine cleanliness.

It has a specific reactivity to temperature variations. Its maximum fluidity at low temperatures improves injection and ensures that oil pressures rise quickly.

## CUSTOMER BENEFITS

- **Viscosity controlled in relation to temperature:** **ELF MOTO<sup>4</sup> ROADSTAR 15W-50**'s additives thicken the oil at high temperatures and give it fluidity at low temperatures. The correct oil film is obtained by controlling the viscosity in accordance with temperature using Viscosity Index Improvers. The product's viscosity incorporates superior lubrication performance, ensuring easy cold start-ups, fast oil pressure rises and low friction between moving engine components.
- **Piston ring sealing, power gains:** The oil reduces piston ring groove fouling for optimum sealing during combustion. This ensures that the engine retains its full power.
- **Oxidation resistance:** **ELF MOTO<sup>4</sup> ROADSTAR 15W-50** has anti-oxidant additives which neutralise and slow down the oxidation process. This prolongs the lubricant's lifetime and keeps the oil fluid and efficient. It remains homogenous and its acidity level scarcely changes.
- **Anti-clutch slippage, disk protection:** Because of their molecular structure, the base oils are able to form a homogenous film between the clutch disks. The friction factor is adapted to mechanical requirements, preventing clutch slippage and premature disk wear.



## CHARACTERISTICS\*

Test	Unit	Result
Viscosity grade	-	15W-50
Density at 15°C	kg/m <sup>3</sup>	868
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	133.7
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	17.5
Viscosity index	-	149
Pour Point	°C	-33
OC Flash Point	°C	240

\*The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

## RECOMMENDATIONS FOR USE

Before using the product, the vehicle's user guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations.

If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

## HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet. This can be obtained on request from your local reseller and is available for consultation at [www.quickfds.com](http://www.quickfds.com).

This product should not be used for any purposes other than the ones for which it is intended.

When disposing of the product after use, please protect the environment and comply with local regulations.

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Some variations can be expected under normal production conditions, but these should not affect the product's expected performance irrespective of the site. The information contained in this document is subject to change without notice. Our products can be viewed on our website at [www.elf.sg](http://www.elf.sg)