



# TOTAL QUARTZ 9000 ENERGY 0W-40

Engine oil

## KEY DATA

### LIGHT VEHICLE RANGE



**PETROL & DIESEL ENGINE OIL**

**SAE 0W-40**

**SYNTHETIC TECHNOLOGY**

### INTERNATIONAL STANDARDS

- ✓ ACEA A3/B4
- ✓ API SN/CF backward compatible API SM, SL etc.

### MANUFACTURER CERTIFICATIONS\*

- ✓ MB-Approval 229.5, backward compatible MB-approval 229.3
- ✓ VW 502.00/505.00
- ✓ FORD WSS-M2C937-A
- ✓ BMW LL-01
- ✓ PORSCHE A40

## Applications

TOTAL QUARTZ 9000 ENERGY 0W-40 is synthetic technology engine oil that meets the requirements of the new ACEA A3/B4 and API SN/CF sequences. Its compliance with these new international standards means that it meets the most recent requirements for petrol engines, as well as those for diesel engines that are not fitted with particulate filters.

The certifications that TOTAL QUARTZ 9000 ENERGY 0W-40 has secured make it premium choice engine oil for use in after-sales – it meets the requirements of a very wide range of engines developed by many different manufacturers. These include Mercedes-Benz, Smart, Porsche, BMW, Mini, Volkswagen, Audi, Skoda, Seat or Ford.

It is suitable for normal as well as the most demanding driving conditions (door-to-door, sporty driving, repeated start-ups, city and motorway driving, etc.), and for all seasons.

## Customer benefits

- **Engine protection:** This lubricant provides an extremely high level of engine protection, ensuring that all engine parts last for a long time. Protection is greater than 20% at the official European manufacturers' wear tests! \*\*
- **Protection for petrol engine pollution-control systems:** TOTAL QUARTZ 9000 ENERGY 0W-40 optimises the way in which three-way catalytic converters work, preventing them from getting clogged up with deposits. This reduces emissions of NOx, HC and CO in particular.
- **Engine cleanliness:** This oil offers the best possible protection in its category against deposits in all circumstances: as soon as the engine is started, during cold starts and at extremely high temperatures.
- **Easier start-ups:** The 0W-40 grade, together with special additives, makes engine start-ups easier - at both very low and very high temperatures that makes it ideal for stop & start systems.
- **Oil change intervals:** TOTAL QUARTZ 9000 ENERGY 0W-40 retains all of its properties, in accordance with service plan and oil change intervals recommended by the most demanding manufacturers: Its resistance to phenomena associated with lubricant ageing is 35% higher than official requirements after oxidation test \*\*\*.

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\* TOTAL recommends following the manufacturers' recommendations for vehicle maintenance. Refer to the maintenance manuals.

\*\* Official ACEA test: TU3MS.

\*\*\* Official ACEA test: TU5

## Characteristics\*

Test	Unit	Test method	Result
Viscosity grade	-	SAE J300	0W-40
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	76.41
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	13.4
Viscosity index	-	ASTM D2270	183
Pour Point	°C	ASTM D97	-39
OC Flash Point	°C	ASTM D92	231

\* 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 maintenance 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.fr](http://www.quickfds.fr).

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.