



**AGE
RESISTANCE
TECHNOLOGY**



TOTAL QUARTZ INEO MDC 5W-30

Engine oil

KEY DATA

LIGHT VEHICLE RANGE



GASOLINE & DIESEL MOTOR OIL

SAE 5W-30

SYNTHETIC TECHNOLOGY

LOW SAPS

INTERNATIONAL STANDARDS

- ✓ ACEA C2 & C3
- ✓ API SN/CF

MANUFACTURER APPROVALS*

- ✓ **MERCEDES-BENZ:** MB-Approval 229.52
- ✓ **GENERAL MOTORS:** Official dexos2™ license: Meets the latest technical requirements of GM engines (Opel, Vauxhall, Chevrolet)
- ✓ **HYUNDAI – KIA:** Approved by Hyundai Kia and recommended in after sales**

DESCRIPTION

Nowadays, engines face **tremendously high operating temperatures and pressures**. This accelerates oil oxidation and **destabilizes its molecular structure**, leading to **increased friction and sludge build-up**

TOTAL QUARTZ INEO MC3 5W-30 with **ART (Age Resistance Technology)** is an advanced, highly charged formula which fortifies the anti-oxidation properties of the engine oil offering therefore **ultimate protection** against sludge formation and wear.

TOTAL QUARTZ with ART,
Keep your engine younger for longer.

APPLICATIONS

TOTAL QUARTZ INEO MDC 5W-30 is a synthetic Low SAPS engine oil. Its innovative formulation is perfectly adapted to meet the needs of the recent Mercedes Benz, GM and the vehicles of Hyundai-Kia Motors Corporation.

TOTAL QUARTZ INEO MDC 5W-30 is suitable for all gasoline and Diesel engines, including the most recent, which comply with Euro VI polluting emissions reduction norms in particular.

This pollution-control synthetic technology engine oil provides engines with the best possible protection against wear and clogging. The emission control systems, sensitive to the lubricants used and expensive to maintain, are also protected over the long-term thanks to the "Low SAPS" formulation (low content of sulphated ash, phosphorus and sulphur contents).

This 5W-30 grade lubricant is suitable for the most severe conditions of use (sports driving, repeated start-ups, city and motorway driving).

* Please refer to car owner's manual / ** worldwide except Korea

CUSTOMER BENEFITS

- **Reduced environmental impact:** TOTAL QUARTZ INEO MDC 5W-30 is formulated to protect emission control systems such as particulate filter and three-way catalysts. Pollutant emissions are therefore reduced (HC, NOx, CO, Particles...)
- **Engine longevity:** This oil ensures optimum engine longevity with its antiwear properties that protect the engine's most sensitive parts.
- **Engine protection and cleanliness:** Its excellent resistance to temperature variations guarantees outstanding engine protection and optimal performance level under all circumstances.
- **Longer intervals between oil changes:** TOTAL QUARTZ INEO MDC 5W-30 satisfies the most demanding manufacturer service plans by permitting extra-long oil change intervals.

CHARACTERISTICS*

Test	Unit	Test method	Result
Viscosity grade	-	SAE J300	5W-30
Density at 15°C	kg/m ³	ASTM D1298	853
Kinematic viscosity at 40°C	mm ² /s	ASTM D445	72.8
Kinematic viscosity at 100°C	mm ² /s	ASTM D445	12.3
Viscosity index	-	ASTM D2270	168
Pour Point	°C	ASTM D97	-36
OC Flash Point	°C	ASTM D92	238

*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.

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.

TOTAL LUBRIFIANTS – Immeuble Spazio
562, avenue du Parc de l'île
92029 Nanterre cedex
France

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