

QUARTZ 3500 SUPER 20W50



Data sheet

High quality multigrade lubricant for gasoline engines

APPLICATIONS

Gasoline/Diesel engines

- Suitable for used in both gasoline and diesel engines (passenger cars and light industrial vehicles).
- Maintains excellent engine lubrication during the most severe conditions of urban transport: public transport, delivery services, stop and go, etc
- Adapted to vehicles equipped with catalysts and using unleaded fuel or gas-fuelled (CNG and LPG).

PERFORMANCES

Specifications

- API SF/CF

CUSTOMER BENEFITS

Technical Benefits

- Multigrade.
- High viscosity index.
- Very good viscosity stability in operation.
- High dispersancy and detergency level.
- Antiwear, anticorrosion, anti-rust, antioxidation, antifoaming

CHARACTERISTICS

QUARTZ 3500 SUPER	Units	SAE Grade 20W-50
Volumetric mass at 15°C	kg/m ³	892
Viscosity at 40°C	mm ² /s	154
Viscosity at 100°C	mm ² /s	17.00
Viscosity number	-	119
Flash point Cleveland	°C	237
Pour point	°C	-24

The typical characteristics mentioned represent mean values.

Total Quartz 3500 SUPER 20W50
Version Feb, 2005

This lubricant, when used according to our recommendations and for the purpose for which is intended, presents no particular hazards. A safety data sheet complying with current EC legislation can be obtained from your local commercial adviser.



TOTAL QUARTZ 9000 SN 5W-50

Engine lubricant

KEY DATA

LIGHT VEHICLE RANGE



INTERNATIONAL STANDARDS

✓ API SN/CF

PETROL & DIESEL ENGINE LUBRICANT

SAE 5W-50

100% SYNTHETIC

APPLICATIONS

100% Synthetic multi grade oil for passenger car engine

- TOTAL QUARTZ 9000 SN 5W-50 is 100% synthetic engine oil with special protective additives for ultimate level of engine protection that exceeds USA and European industry standards.
- TOTAL QUARTZ 9000 SN 5W-50 is recommended for all petrol engines (multi-valve and turbo types, with or without catalytic converter) and all diesel engines, turbo-charged or naturally aspirated in cars and light vans.
- TOTAL QUARTZ 9000 SN 5W-50 designed to provide protection under severe driving style or conditions.
- TOTAL QUARTZ 9000 SN 5W-50 is stability and endurance under extreme conditions (heat, load, speed) that can cause conventional oils to break down.

CLIENT BENEFITS

- **Optimised performance**
 - Ensures excellent engine cleanliness and wear protection for vehicles in city and suburban driving conditions.
 - Excellent thermal and oxidation stability.
- **Lengthens engine life**
 - An unique combination of advanced synthetic and meticulously selected additives provide freedom of ring sticking, reduction in deposits leading to a reduced engine wear and to a longer engine and component life.
 - Thanks to its 100% synthetic formulation, has an exceptional viscosity index.
- **Low temperature flow properties**, Circulates rapidly within the engine to minimize cold start up wear. Improves low temperature engine efficiency over conventional mineral oil.
- **Compatibility with a wide range of seal materials**, Ensures the important engine seals stay soft and pliable to minimize oil leakage.

www.lubrifiants.total.fr

* The owner's manual should be referred to.

When used in accordance with our recommendations and for the application for which it is intended, this lubricant presents no particular risks. A safety datasheet that in compliance with current EU legislation is available from your sales consultant.

CHARACTERISTICS

Test	Unit	Test method	Result
Viscosity grade	-	SAE J300	5W50
Density at 15°C	kg/m ³	ASTM D1298	853
Viscosity at 40°C	mm ² /s	ASTM D445	138
Viscosity at 100°C	mm ² /s	ASTM D445	20.5
Viscosity index	-	-	170
Cleveland flashpoint:	°C	ASTM D92	-36
Flow point:	°C	ASTM D97	254

* 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 manual 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 barrels 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.

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TOTAL QUARTZ 9000 SN 5W50

Last update of this datasheet: 07/2012
Label reference: MPC 07/12



QUARTZ CNG 20W50



Data sheet

High quality multigrade lubricant for CNG / LPG / Gasoline / Diesel engines

APPLICATIONS

For all CNG / LPG / Gasoline / Diesel Engines

- Suitable for use in CNG / LPG / Gasoline / Diesel engines of passenger cars and light industrial vehicles.
- Maintains excellent engine lubrication during the most severe conditions of urban transport: - public transport, delivery services, stop and go etc.
- Adapted to vehicles equipped with catalysts and using unleaded fuel or gas-fuelled (CNG and LPG).

PERFORMANCES

International specification

- API SF/CD

CUSTOMER BENEFITS

Technical profile

- Multigrade
- High viscosity index
- Very good viscosity stability during operations
- High dispersancy and detergency level
- Anti-wear, anti-corrosion, anti-rust, anti-oxidation, anti-foaming properties

CHARACTERISTICS

Total Quartz CNG	Method	Units	SAE Grade 20W50
Volumetric mass at 15°C	ASTM D1298	kg/m ³	892
Viscosity at 40°C	ASTM D445	mm ² /s	154
Viscosity at 100°C	ASTM D445	mm ² /s	17.00
Viscosity Index	ASTM D2270	-	119
Pour Point	ASTM D97	°C	-24
Flash Point	ASTM D92	°C	237

The typical characteristics mentioned represent mean values.

Total Quartz CNG 20W50
Version Sept, 2005

This lubricant, when used according to our recommendations and for the purpose for which is intended, presents no particular hazards. A safety data sheet complying with current EC legislation can be obtained from your local commercial adviser.

QUARTZ INEO MC3 5W-30



A synthetic Low SAPS engine oil specially formulated to meet the technical requirements of vehicles manufactured by BMW, Mercedes-Benz, Volkswagen and Hyundai Kia.

RANGE OF USE

- **TOTAL QUARTZ INEO MC3 5W30** complies with the latest ACEA and API international standards and meets the requirements of the most demanding automobile manufacturers.
- This 5W-30 grade lubricant is suitable for the most severe conditions of use (door-to-door, sports driving, repeated start-ups, city and motorway driving).
- Its special formulation resists the most extreme variations in operating temperature. It is particularly well suited to all recent multi-valve engines equipped with turbochargers and direct injection.
- Its Low SAPS technology (low content in Sulphated Ash, Phosphorus and Sulphur) makes it the lubricant of choice for optimal operation of the latest-engine generation equipped with anti-pollutant devices.

PERFORMANCE

International standards	ACEA :	C3
	API:	SN/CF
Manufacturer approval*	MERCEDES-BENZ:	MB-Approval 229.51 and backward compatible 229.31
	BMW:	LL-04
	VOLKSWAGEN:	502.00 / 505.01
	HYUNDAI-KIA:	Approved by Hyundai Kia and recommended in after sales*
	GENERAL MOTORS:	Official dexos2™ license: Meets the latest technical requirements of GM engines (Opel, Vauxhall, Chevrolet) backward compatible GM-LL-A-025, GM-LL-B-025

CUSTOMER ADVANTAGES

Reduced environmental impact

Longevity of post-treatment systems

Engine protection and cleanliness

Longer intervals between oil changes

- QUARTZ INEO MC3 ensures optimal functioning of three-way catalytic converters and particulate filters, which lower emissions of NOx, CO2, CO and particles and ensure compliance with performance levels announced by manufacturers and Euro V environmental standards.
- Extends the service life of post-treatment systems by preventing DPFs and three-way catalytic converters from clogging and filling.
- Its excellent resistance to temperature variations guarantees the longevity of engine parts and optimal performance level under all circumstances.
- Satisfies the most demanding manufacturer service plans by permitting extra-long oil change intervals.

SPECIFICATIONS

TOTAL QUARTZ INEO MC3	Method	Units	5W-30 grade
Kinematic viscosity at 40°C	ASTM D445	mm ² /s	69
Kinematic viscosity at 100°C	ASTM D445	mm ² /s	12
Viscosity index	ASTM D2270	-	171
Pour point	ASTM D97	°C	-36
OC flash point	ASTM D92	°C	234
TBN	ASTM D2896	mgKOH/g	7

The specification values appearing in this table are typical values provided for informational purposes only. *It is recommended to refer to the owner's manual.

*Please refer to car owner's manual

**throughout the world except Europe and Korea

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FRANCE

QUARTZ INEO MC3 5W30
Last update of datasheet: Jan 2012



When used in accordance with our recommendations and for the application for which it is intended, this lubricant presents no particular risks. A safety datasheet in conformity with current legislation in effect in the E.C. is available from your sales advisor.



TOTAL

TOTAL QUARTZ 5000 SN 10W40; 15W50; 20W50

Motor Oil

BASICS

PASSENGER CAR RANGE



INTERNATIONAL SPECIFICATIONS

✓ SN/CF

Engine Motor Oil

SAE 10W-40; 15W50; 20W-50

MINERAL TECHNOLOGY

APPLICATIONS

TOTAL QUARTZ 5000 SN are premium high performance multi-grade oils for passenger car, designed to meet lubricant requirements.

This product has been developed to cover the requirements of both gasoline and diesel engines (passenger cars and light industrial vehicles).

It could be used in all operating conditions (city traffic, road, motorways), whatever the season.

These lubricants meet the latest API specifications.

CLIENTS BENEFITS

- The product enhances **the engine performance**
- Real **long-term wear protection** of engine parts (distribution, ring, plunger and liner) increasing engine life.
- This product **meets the most demanding car manufacturer's requirements.**
- **Standard oil changes**
- Excellent thermal and oxidation stability

CHARACTERISTICS*

Tests	Unit	Test method	10W-40	15W-50	20W-50
Density at 15 °C	kg/m ³	ASTM D1298	869	873	882
Kinematic viscosity at 40 °C	mm ² /s	ASTM D445	101	165	168
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	14	21.3	18
Viscosity index	-	ASTM D2270	135	152	120
Pour point	°C	ASTM D97	-36	-33	-24
Flash point COC	°C	ASTM D92	235	243	239

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

RECOMMENDATIONS FOR USE

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