TECHNICAL DATA SHEET

OPALPERF GI-V7 10W50

SEMI-SYNTHETIC OIL FOR ALL CAR ENGINES

LIGHT VEHICLES RANGE
ENGINE
SEMI SYNTHETIC
SAE 10W-50

STANDARDS AND SPECIFICATIONS
ACEA A3/B4-23
API SN/CF
MB 229.1
VW 501.01/505.00

Mineral | **Semi-synthetic** | 100% synthetic

Engine cleanliness

Oxidation resistance

Shear stability

APPLICATIONS

OPALPERF GI-V7 10W50 has been especially elaborated to meet the most severe requirements of sedan cars' petrol and Diesel engines, particularly supercharged engines or with multi-valves, whose performances, throughput and technology are really evolved during the past years.

BENEFITS

OPALPERF GI-V7 10W50 is a semi-synthetic lubricant associated with special components with molybdenum and bismuth. This UNIL OPAL original formulation associates the remarkable stability of synthetic base oils with highly refined mineral base oils, what confers to the product the following main properties :

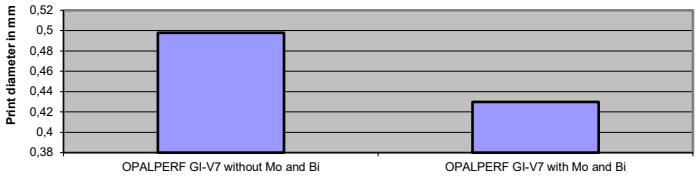
- A high viscosity range : SAE 15W50, allowing :

WHEN COLD : easy start and an immediate engine lubrication,
UNDER HEAT : an optimal engine lubrication

- Exceptional shear stability which allows the initial viscosity of 10W50 to be maintained between each oil change.
- **OPALPERF GI-V7 10W50's** remarkable thermal stability and very high detergent power guarantees that the various engine components stay clean and, therefore, continue to operate at their best.

But, **OPALPERF GI-V7 10W50** also presents other advantages, thanks to its special additives based on molybdenum and bismuth.
Molybdenum is a polar additive, which fixes itself on lubricated metallic parts, and which allows to **reduce from 15 to 50% the friction coefficient** of parts in contact. You will take advantage of this benefit at each start of your engine. Moreover, this additive allows to reduce the sulphur and phosphorus contents of the oil, while obtaining the same performances : it is then an **advantage for the longevity of particles and NOx traps**, sensitive to these elements.
Bismuth is an additive which optimizes the action of sulphur contained in oil, and which **improves the anti-wear performances of the lubricant to 14%** (see test bellow).

4 ball wear test (ASTM D 4172)



PERFORMANCES

PERFORMANCE LEVELS	ACEA A3/B4-23 API SN/CF MB 229.1 VW 501.01/505.00

CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
SAE grade	**-**	**-**	**10W-50**
Colour	-	Visual	Green
Appearance	-	Visual	Clear
Specific gravity at 20°C	kg/m³	NF EN ISO 12185	858
Kinematic viscosity at 40°C	mm²/s	NF EN ISO 3104	123,7
Kinematic viscosity at 100°C	mm²/s	NF EN ISO 3104	18,15
Viscosity index	-	NF EN ISO 2909	163
Pour point	°C	NF T 60-105	-42
Flash point	°C	ASTM D 92	224
CCS viscosity at -25°C	mPa.s	ASTM D 5293	5 672

This typical data is given for information only

HEALTH, SAFETY AND ENVIRONMENT

Elimination must be carried out to conform to the rules set for the disposal of used lubricants.

Must be stored away from bad weather.

Should you need further details, our Technical Department remains at your entire disposal.