



# Product Information

## HPR 10

Penrite HPR 10 is a premium quality, semi-synthetic SAE 10W-50 wide range viscosity petrol engine oil for optimum engine performance. HPR 10 is a "world oil" that offers the best balance of power retention and wear protection for new engines in tough Australian conditions.

Penrite HPR 10 meets the requirements of API SM/CF and the European Standards ACEA A3/B4, as well as many manufacturers' specifications.

### APPLICATION

Designed for use in the latest types of petrol engines including conventional, multi-cam, multi-valve, turbocharged and supercharged engines (including the new generation of high output V8 and V10 engines) from all over the world. Also recommended for engines equipped with variable valve timing. Specific examples include the VT-VY Commodore, AU-BA Falcon and their derivatives, Range Rover, Nissan, Chrysler and Jeep petrol engines, Honda VTEC engines, Toyota VVT-i engines and other vehicles that specify the use of SAE 10W-30, 10W-40 or 10W-50 oils in the owner's handbook. Can also be used where SAE 15W-50 and 15W-40 oils are required.

While HPR 10 is suitable for use in many gas and diesel powered vehicles, HPR Gas 10 and HPR Diesel 5 are our primary recommendations in this viscosity range.

### BENEFITS

- Greater engine protection at operating temperatures compared to other 10W- oils due to higher operating viscosity.
- Combines the benefits of fast oil flow at start up with superior high temperature wear protection.
- Longer engine life by reducing formation of high temperature engine deposits.
- Less oil consumption due to the combination of low volatility synthetic base oils and high operating temperature viscosity.
- Low start-up viscosity provides engine protection and power retention at the most critical time of the engine's run cycle.
- Compatible with catalytic converters.

### PERFORMANCE LEVEL

Penrite HPR 10 meets the performance requirements of:

API SM/CF	ACEA A3/B4 (Europe)
Chrysler MS-6395	Porsche
Renault	GM 9986126
Rover RES.22.OL.22	BMW
VW501.01/502.00/505.00	Holden HN 2100
Ford WSE-M2C910A/905A3	Ford M2C153F/G
Mercedes Benz 229.1	Peugeot PSA E-02
Fiat-Lancia-Alfa Romeo	

### TYPICAL PROPERTIES

Density at 15°C, kg/L	0.870
Flash Point, °C	214
Viscosity, Kinematic, cSt	
at 40°C	142
at 100°C	19.6
Viscosity Index	158
Cold Cranking Viscosity, cP at -25°C	6519
High Temperature/High Shear Viscosity, cP at 150°C	
NOACK Volatility, mass %	10.7
Zinc, mass %	0.110
Phosphorus, mass %	0.100
Sulphated Ash, mass %	1.02
Base Number	7.6

### ENVIRONMENT, HEALTH AND SAFETY

Information is available by request on this product in the Penrite Material Safety Data Sheet. Information in this sheet is based on the most current information available. Minor variations to typical properties not affecting the performance of the product are to be expected in normal manufacture. Issued September 2006

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