

# Octane Means performance



**Motorsport**

Road, Track day, Race, Rally . . .  
your vehicle should benefit from more octane

**The more you get, the better the performance.**

Over the years the octane of fuels has been progressively reduced. 20 years ago it was possible to get 101 octane fuel. Today, over 95% of fuel sold is only 95 octane and most super unleaded is only 97 octane.

Leaded fuel for older vehicles is available, but distribution is limited.

Modern engine management systems will reprogramme the ignition to get the maximum out of the fuel. The higher the octane, the higher the power output.

MILLERS OILS has responded to the changes in fuel by developing a range of fuel treatments designed to help the enthusiast get the maximum performance out of his engine, whether it be road, track day, competition or classic vehicle.

**It is now possible to get up to 102 octane using pump fuel.** The following test results were compiled by ITS (the FIA fuel testing laboratory) on behalf of Millers Oils to determine the RON (Research Octane Number) and MON (Motor Octane Number) levels for various fuel treatment combinations that may be used in high performance or competition motoring.

## Results

Fuel combination	RON	MON	Comments	Application
Shell unleaded	96.1	85.0	Good RON, minimum MON	General road use. Typical figures for quality pump fuel
Shell Optimax®	98.3	86.9	Best available pump fuel	Performance road cars with catalyst
Millers CVL Turbo with Optimax®	101.4	89.9	EXCELLENT RON & MON	Alternative to specialist racing fuels for track days, race, rally etc
Millers CVL with Optimax®	100.8	89.2	VERY GOOD improvement in RON & MON	Valve lubricant for motorsport
Millers Octane Plus with Optimax®	99.4	87.5	GOOD INCREASE in RON & MON	For continuous use in road cars with catalysts

**Conclusion:** With Millers fuel treatments and Shell Optimax® it is now possible to get up to 102 octane fuel.



[www.millersoils.co.uk](http://www.millersoils.co.uk)

For technical support and the name of your nearest Millers distributor visit our website or call

**FREEPHONE 0800 281053**

### Notes:

- One octane number = 10 Octane points
- The Ron number is normally used as a reference in the UK. Eg 95, 97, 98 octane
- The MON number is a better indication of fuel quality because it is more representative of high speed conditions
- The minimum permissible MON is 85
- US fuel standards add the RON to the MON and divide by 2. This gives a better indication of fuel quality
- Leaded fuel to BS4040 has a typical lead content close to the 150mg per litre limit

