

## **Sri Lanka Standards Specification for Petrol for Motor Vehicles**

**SLS 761:2021 Sri Lanka Standard Specification for Petrol for Motor Vehicles** Specifies the requirements and methods of test for petrol suitable for use as a fuel for vehicles having petrol engines. This is the second revision of this Standard. In this revised Standard, instead of the leaded petrol of Octane number 90 specified in the first revision, two variants of Regular and Premium based on the Research Octane Number (RON) have been introduced. Minimum Research Octane number 91 is specified for Regular type and minimum of 95 Octane number is specified for Premium type of petrol. This Standard is based on International Standards and the requirements/recommendation of Original Equipment Manufacturers (OEM).

Engine manufacturers recommend minimum octane requirements depending on compression ratios of the engine. These requirements are minimum 91 and minimum 95 for most of the cases. For special engines where higher compression ratios are available such as racing/sports engines, they may require min. 98.

When revising the Sri Lanka Standard, the expert committee considered the specifications of oil companies who produce and market petrol. They commonly market 91 and 95 octane petrol. To get the marketing advantage retailers can market higher Octane numbers such as 92, 93 etc. But this is only to get the marketing advantage and not a technical or product specific requirement.

The Committee also studied the local vehicle population and their octane requirements. Majority of vehicles are Japanese, Korean, Malaysian, Chinese and Indian OEMS. For all these vehicles minimum Octane requirement is 91.

Environmental impact by all properties was one of the highest priorities given in deciding the limits for local conditions. These include, requirements for ensuring complete combustion, Lead content, other impurities such as Sulphur, residue etc. and volatility.

Sri Lanka Standards Institution always strives to ensure that Sri Lanka National Standards are developed based on the world best practices which suits to our local environment.

**SLSI always strive to ensure the safety and wellbeing of our consumers**