



What does MOGAS RON 95/AKI 91 mean?

The Antiknock Index (AKI) is the octane rating usually used in the US. It is the number displayed on gasoline pumps in the US and is the number used by automobile manufacturers in specifying the octane requirements of their engines. Rotax specifies a minimum AKI of 91 for the 912ULS. The AKI is determined by averaging the RON and the MON using the formula $AKI = (RON + MON) / 2$.

In Europe, RON is most commonly used to specify octane rating. This is the source of some confusion among owners of some European cars. Fuel with 91 RON in Europe is roughly equivalent to 87 AKI and fuel with 95 RON is roughly 91 AKI. So a Rotax 912 ULS powered aircraft sold in the US and requiring 91 AKI would be specified as requiring 95 RON if it were sold in Europe.

The use of Premium Grade auto fuel is approved for the Rotax 912ULS aircraft engine.

Refer to the Rotax Operator's Manual section 10.2.2 Fuel, Rotax Service Instruction SI-912-016 for the most current information.