UL 91

Guaranteed technical properties

Unleaded aviation gasoline 91 UL is produced according to stringent manufacturing specifications and meets the requirements of standard ASTM D 7547

Colour		Colourless natural
Knock rating		
Motor Octane Number, MON		Min 91
Research Octane Number, RON		Min 96
Distillation		
Initial boiling point	°C	Report
10% vol. at	°C	Max 75
40% vol. at	°C	Min 75
50% vol. at	°C	Max 105
90% vol. at	°C	Max 135
Final Boiling Point	°C	Max 170
Productivity	% (v/v)	Min 97
Residue	% (v/v)	Max 1,5
Loss	% (v/v)	Max 1,5
Sum of 10% + 50% evaporated temp.	°C	Min 135
Total sulphur	% (m/m)	Max 0,05
Density at t=15 °C	kg/m3	Report
Specific energy	MJ/kg	Min 43,5
Freezing point	°C	Max (-58)
Copper strip corrosion		
2h at t=100°C	Corrosion level	Max 1
Water reaction		
volume change	ml	Max±2
Electrical conductivity at 20°C	pS/m	50-450
Reid vapour pressure at 37,8°C	kPa	38-49
Oxidation stability 16 h at 100°C		
potential gums	mg/100 ml	Max 6

Characteristics

Unleaded aviation gasoline UL 91 is a mixture of hydrocarbons prepared by the processing of crude oil. It contains antioxidant and antistatic additives.

Application

Aviation Gasoline UL 91 is used to power piston-engine aircraft.

Stability

Properly stored aviation gasoline meets requirements of the above specification in a period of not less than 24 months from the date of manufacture.

Classification and labeling

According to the data sheet.

ADR - UN 1203 MOTOR FUEL (GASOLINE) , 3, II

CN CODE - 27101231

Phrases R: 11, 38, 48/20, 51/53, 63, 65

Phrases S: 9, 16, 23, 36/37, 62