



Sunoco E85-R

Sunoco E85-R Technical Bulletin

Sunoco E85-R is an unleaded racing fuel containing 85 percent ethanol (by volume). It can only be used in fuel systems designed specifically for E85. Because it is highly oxygenated and requires increased fuel flow compared to conventional non-oxygenated fuels, consult with your fuel injection system or carburetor supplier for correct air/fuel ratio calibrations.

Sunoco E85-R is blended to consistently contain 85% ethanol. Conventional E85 can vary from 68% to 79% ethanol but rarely contains 85% ethanol. Conventional E85 can also vary seasonally; the composition of Sunoco E85-R race fuel does not change. The non-ethanol portion of Sunoco E85-R is comprised of highly-refined race fuel hydrocarbons for stability and consistency. Sunoco E85-R is the racer's fuel of choice where E85 fuels are allowed.

Sunoco E85-R does not contain metallic additives and will not harm oxygen sensors. It should be stored in dark, tightly sealed containers where the temperature is stable. Handled under such conditions, shelf life is in excess of 1 year. Check with your fuel system and fuel container manufacturers for compatibility with ethanol and E85 blends.

Sunoco E85-R Typical Properties

Color	pale green
Octane Number (R+M)/2	99 (estimated)
Specific Gravity	0.79
Density (lbs/gal)	6.6
Reid Vapor Pressure (psi)	5
ASTM D86 Distillation (deg F)	
Initial Boiling Point	130
10% Evaporated	165
50% Evaporated	171
90% Evaporated	173
Final Boiling Point	180
H/C Ratio	2.74
O/C Ratio	0.39
Stoichiometric Air/Fuel Ratio	9.8:1
Oxygen (weight %)	29

For off-road and racing applications only. Legal in California only for racing vehicles in sanctioned racing events.