

TECH BULLETIN

KLOTZ

Racing Gasoline Cautions

1. Don't use more octane than you need. "Over Octaning" can actually reduce performance because of the slower burn speed of high-octane gasoline. Match the octane to the compression of your engine.
2. Don't wait till the race is over to see whether your fuel is legal. Always have your fuel tech inspected BEFORE you race. Even some pump gasolines can be ruled "illegal" because of the addition of MTBE and ethanol alcohol in some areas of the country.
3. Don't trust gasoline from an unfamiliar supplier. How long has it been sitting in that underground tank, drawing moisture? Gasoline needs to be stored in a sealed drum to prevent contamination. Always carry Octane Booster to treat suspect gasoline.
4. Don't store gasoline in a regular plastic gas can for extended periods. The "light ends" of the gasoline will seep out through the plastic container and evaporate, reducing the octane of the gasoline. In as little as 24 hours the gasoline has already begun to lose a substantial amount of the light ends. Use sealed metal containers for longer storage. Octane boosters can rejuvenate gasoline that has started to deteriorate.
5. Don't assume all gasolines with a given octane rating are the same. There are as many chemical formulations for 108 octane gasoline as there are gasoline suppliers. Some gasolines will burn cooler than others and some will produce more horsepower. Find a gasoline that performs well in your application, then tune to that gasoline.

