

Unleaded with Ethanol

Description

Gasoline is one of the most important and valuable products to come out of the crude oil refining process. To increase octane rating and reduce engine knock, lead was added to gasoline, but was later replaced with ethanol due to environmental and health concerns. Ethanol is a denatured ethyl/grain alcohol commonly made from corn. Ethanol can be sustainably and domestically produced, making it a good choice for a gasoline mix. Also, due to ethanol's high oxygen content, emissions are greatly reduced and smog heavy areas benefit from cleaner air. The use of ethanol blended gasoline helps the US meet its goals for the Clean Air Act and the Renewable Fuels Standard.

Features and Benefits

- Controlled volatility for:
 - Easy starting
 - Fast warm-up
 - Excellent acceleration
 - Maximum Power
- Seasonally tailored vapor pressure:
 - Helps prevent vapor lock
 - Allows quick cold starts
 - Helps prevent carburetor icing
 - Reduce evaporation on hot days
 - Reduce volatility of emissions
- Specially additized to provide:
 - Clean-up of port fuel injectors
 - Port fuel injector performing as designed
 - Excellent carburetor detergency
 - Elimination of fuel induction system deposits
 - Corrosion protection for metal components
- Ethanol blended to provide:
 - Higher octane ratings
 - Detergency effect in engines and storage tanks
 - Reduced emissions

Typical Properties

Relative Density	0.70 – 0.77 @60°F (15.6°C)
Existent Gum, mg/100mL	5
Sulfur, ppm	80
Octane	87
Ethanol Content, %	10-85
Flash Point, °F	< -50
Physical State	Liquid
Color	Clear or light colored

Recommended Usage

Recommended for use in engines designed to run on unleaded gasoline. Any vehicle model year 2001 and newer is designed to handle up to E15, however higher blends require special “flex-fuel” vehicles.

Storage and Handling

Unleaded gasoline is extremely flammable so exercise caution. Do not expose to any heat, sparks, electrostatic charge, or other ignition sources. Always use personal protective equipment and avoid contact with the material. Do not breathe in vapor or mist. Store unleaded gasoline in tightly closed containers in cool, dry, isolated, and well-ventilated areas. If a spill occurs, soak up the liquid with an inert material.

Shelf Life

24 Months