28 PLANTS
1,800 TEAM MEMBERS

550 MILLION POUNDS of corn oil per year.

1.75 BILLION gallon production capacity.

$200 MILLION (average) contribution to each plant’s local economy

$6 BILLION in annual revenue

800% GROWTH since 2000.

9 BILLION POUNDS of distillers dried grains produced annually and distributed to countries throughout the world.

SEE THE WORLD DIFFERENTLY
Corn and Ethanol Improvements

We are just starting to realize our potential.
Where Does America’s Corn Go?

We’ve Got Plenty to Go Around

- **NET ETHANOL**
- **ETHANOL CO-PRODUCTS**
  - Distiller’s grains, Corn gluten feed & meal, corn oil
- **EXPORTS**
- **FOOD SEED & INDUSTRIAL**
- **FEED & RESIDUAL**

**BILLION BUSHELS CORN EQUIVALENT**

How Much?
Only 25 percent of corn acres are used for renewable fuels.
After decades as a leader in the renewable fuels industry, POET continues to improve its process. Yields are rising. Water use continues to decline. Ethanol production grows more and more efficient.
Cellulosic Ethanol

The future is here!
THE ART OF POET BIOREFINING

CORN

AGRICULTURAL RESIDUE

ETHANOL  DDGS  OILS  BIOGAS  BIO-BASED CHEMICALS  CO₂  FIBER  ZEIN  LIGNIN
THE FUTURE OF ETHANOL
OFFERS A BETTER SET OF FUTURE CIRCUMSTANCES
FUELING THE FUTURE
BUILDING THE FUEL AND ENGINE SYSTEM

DOUG BERVEN
VP OF CORPORATE AFFAIRS
THE CURRENT FUEL STANDARD

E10
RECOGNIZED FUEL OPTIONS

E15  E85
# New ASTM HOF Standard

## TABLE 1 High Octane Number Test Fuel Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Limit</th>
<th>ASTM Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Octane Number, min</td>
<td>100.</td>
<td>D2699</td>
</tr>
<tr>
<td>Motor Octane Number, min</td>
<td>86</td>
<td>D2700</td>
</tr>
<tr>
<td>Sensitivity, min</td>
<td>8</td>
<td>D2699, D2700</td>
</tr>
<tr>
<td>Inorganic Chloride, mg/kg, max</td>
<td>1</td>
<td>D7319 or D7328 as modified in 7.1.12</td>
</tr>
<tr>
<td>Lead content, g/L (g/U.S. gal), max</td>
<td>0.013 (0.05)</td>
<td>D3237 or D5059</td>
</tr>
<tr>
<td>Sulfur, mg/kg, max</td>
<td>10</td>
<td>D1266, D2622, D3120, D5453, D6920, or D7039</td>
</tr>
<tr>
<td>Manganese content, mg/L (mg/U.S. gal), max</td>
<td>See 6.3</td>
<td>D3831</td>
</tr>
<tr>
<td>Copper strip corrosion, max</td>
<td>No. 1</td>
<td>D130</td>
</tr>
<tr>
<td>Silver strip corrosion, max</td>
<td>No. 1</td>
<td>D7667 or D7671</td>
</tr>
<tr>
<td>Solvent-washed gum content, mg/100 mL, max</td>
<td>5</td>
<td>D381</td>
</tr>
<tr>
<td>Oxidation stability, minutes, min</td>
<td>240.</td>
<td>D525</td>
</tr>
</tbody>
</table>

**Notes:**

- **A** See 5.1.2 for determining conformance with numerical specification limits in this table.
- **B** See Appendix X2 for information on U.S. EPA and California Air Resources Board regulations for manganese in gasoline.
high performance, low cost fuel source

cafe standards
54.5 mpg by 2025

why high octane fuel (mleb) & optimized engine vehicle?
THANK YOU