

**AZ6 Grade Arizona Winter Cleaner Burning Gasoline (AZRBOB)**

<u>Product Property</u>	<u>ASTM Test Method</u>	<u>Test Results</u>	
		<u>Minimum</u>	<u>Maximum</u>
Octane RON	D 2699	Report	
MON	D 2700	Report	
(R+M)/2		89.5	
Oxygen Content (wt%) <sup>1/</sup>	D 4815		0.05
RVP (psi)	D 5191		8.0
Benzene (vol%)	D 3606		1.30
Aromatics (vol%)	D 5769		33.1
Olefins (vol%)	D 1319		11.1
CARB Predictive Model Calculation		Pass	
Color			Undyed
Corrosion (Cu) 3 hrs @ 122°F(50°C)	D 130		1
Corrosion (Ag) 3 hrs @ 122°F (50°C)	D 4814		1
Doctor test <sup>2/</sup>	D 4952		Negative
or Mercaptan sulfur (wt.%)	D 3227		0.002
Existent Gum (mg/100 ml)	D 381		4
Gravity °API @ 60°F	D 287	Report	
Oxidation stability (minutes)	D 525	240	
Phosphorous (gms/gal)	D 3231		0.003
Lead (gms/gal)	D 5059		0.010
Sulfur (ppm)	D 5453		80
NACE	TM0172		B+
Haze <sup>3/</sup>	D 4176		2
Odor	Olfactory		Non-Offensive
<u>Volatility:</u>			
Distillation, (°F)	D 86		
Vapor/Liquid Ratio (V/L °F@ 20)	D 2533		
Drivability Index (DI)	D 4814		

<u>Grade</u>	50% Evap	90% Evap	End pt	V/L	DI
	<u>Max</u>	<u>Max</u>	<u>Max</u>	<u>Min</u>	<u>Max</u>
Z6	237	335	430	140	1250

- 1/ Total oxygen levels shall not exceed de minimums levels. The use of non-hydrocarbon blending components such as MTBE is prohibited.
- 2/ Mercaptan Sulfur determination is waived if the result of the Doctor Test ASTM D4952 is negative.
- 3/ Product must be tested at 55°F or tank temperature whichever is lower.

- Product must be certified using current Arizona AZRBOB regulations from a state of Arizona registered supplier.
- In addition to the above a LPP Product Transfer Document for AZRBOB must be filled out and provided to Longhorn Pipe Line Quality Control.
- All gasoline must meet latest revision of ASTM D 4814.
- Corrosion inhibitors, gum inhibitors and metal deactivators must be approved by Longhorn Pipeline
- No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

**AZ6 Grade Arizona Winter Cleaner Burning Gasoline (AZRBOB) (continued)**

- The shipment of fuels containing Port Fuel Injector (PFI) and intake valve detergent additives is prohibited. This is a base gasoline, not for sale to the ultimate consumer
- Any gasoline exhibiting an offensive and/or containing more than 0.50wt % dicyclopentadiene will not be accepted for shipment.
- AZRBOB does not comply with the standards for Arizona CBG without the addition of oxygenate.
- This AZRBOB is intended for blending with 10% volume ethanol and may not be combined with AZRBOB's requiring oxygenate blending with any other type or amount of oxygenate.