

NZS Grade Conventional Gasoline (Arizona Summer Uncertified)

<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	82.0	
(R+M)/2		87.0	
Oxygen Content (wt%) ^{1/}	D 4815		0.05
RVP (psi)	D 5191	6.4	7.0
Benzene (vol%)	D 3606		1.30
Aromatics (vol%)	D 5769		50
Olefins (vol%)	D 1319		25
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 ^{2/}	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 ^{3/}	D 4176		2
Odor	Olfactory		Non-Offensive
<u>Emissions Performance Reductions (%)</u>			
VOC Reduction (%)			-27.5
NOx Reduction (%)			-5.5
<u>Volatility</u>			
Distillation, (°F)	D 86		
E 200(vol%)		30	70
E 300(vol%)		70	100
End pt			430
Vapor/Liquid Ratio (V/L °F@ 20)	D 2533	140	
Drivability Index (DI)	D 4814		1250

1/ Total oxygen levels shall not exceed de minimus 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.

- While this product will not be certified to the state of Arizona, it will meet the requirement necessary for Arizona specifications.
- In addition to the above a MMP Product Transfer Document for Arizona CBG must be filled out and provided to Magellan 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 Magellan Pipeline

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(continued)

- No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
- 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.
- This product does not meet the requirements for reformulated gasoline and may not be used in any reformulated gasoline covered area.