

**NR Grade Regular Gasoline Blendstock (RBOB)**

For Blending With 10.0% Denatured Fuel Ethanol  
(92% Purity) As Defined In ASTM D4806  
VOC-Controlled Region 1 Complex Model Phase II

Product Property	Test Method	Origin Test Results		Deliveries <sup>1/</sup>
		Minimum	Maximum	
Gravity, ° API	D287	Report		
Color		Undyed		
Volatility <sup>2/9/</sup>				
Mercaptan Sulfur, wt % <sup>3/</sup>	D3227		0.002	
Copper Corrosion	D130		1	
Silver Corrosion	D4814		1	
Gum, Existent, mg/100 ml	D381		4	5
Oxidation Stability, minutes	D525	240		180
Octane				
RON	D2699	Report		
MON	D2700	80.0		
(R+M)/2		87.0		
Phosphorus, g/gal	D3231		0.003	0.005
Benzene, wt. %	D3606		1.3	
Aromatics (vol %) <sup>4/</sup>			50	
Olefins (vol %)	D1319		25	
Sulfur, ppm	D2622		80	
Oxygen Content wt % <sup>5/</sup>	D5599	1.5	4.0	
Oxygenates, (vol %) <sup>8/</sup>	D4815		0.05	
E200 (vol%)	D86	30	70	
E300 (vol%)	D86	70	100	
Emmission Performance Reduction (%)		-27.0		
Haze Rating <sup>6/, 8/</sup>	D4176		2	3
NACE Corrosion <sup>8/</sup>	TM0172	B+		
Odor <sup>7/, 8/</sup>			Nonoffensive	

1/ Delivered products meets all applicable requirements at time and place of delivery.

2/ Refer to Seasonal Gasoline Volatility Schedule.

3/ Mercaptan Sulfur determination is waived if the result of the Doctor Test ASTM D4952 is negative.

4/ Refer to test methods in 40 CFR Chapter 1, Part 80.46.

**NR Grade Regular Gasoline Blendstock (RBOB) (continued)**

- 5/ Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending of denatured fuel ethanol.
- 6/ Compliance with ASTM D4176 will be determined using Procedure 2 at the following temperatures, adjusted seasonally:
- |                            |           |
|----------------------------|-----------|
| February 16 – September 30 | 55 °F max |
| October 1– February 15     | 45 °F max |
- 7/ Any gasoline exhibiting an offensive odor and/or containing more than 0.30 wt % dicyclopentadiene will not be accepted for shipment.
- 8/ Specifications must be met before blending of denatured fuel ethanol.
- 9/ For products blended to meet EPA or state imposed summer VOC requirements, test must be performed for RVP in accordance with procedure described in 40 CFR, PART 80, Appendix E, Method 3.

**\*\*NOTE: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount. “Base Gasoline” Not for sale to the ultimate consumer.**

**\*\*NOTE: Heavy metals are not allowed to be present.**

**\*\*NOTE: All parameters must be met after blending with denatured fuel ethanol unless noted**