

A5. AMS Grade 88.5 Sub-Octane Premium Unleaded Gasoline Specifications

(Conventional Gasoline - This product does not meet the requirements for reformulated gasoline and may not be used in any reformulated gasoline covered area)

Product Property	Test Method	Origin		Deliveries ^{1/}
		Minimum	Maximum	
Gravity, ° API	D287		Report	
Color			Undyed	
Volatility ^{2/6/}				
Benzene, vol %	D3606		4.9	
Mercaptan Sulfur, wt % ^{3/}	D3227		0.002	
Copper Corrosion	D130		1	
Silver Corrosion	D7667,7671		1	
Gum, Existent, mg/100 ml	D381		4	5
Oxidation Stability, minutes	D525	240		
Phosphorus, g/gal	D3231		0.003	0.005
Lead, g/gal	D3237		0.010	0.05
Octane				
RON	D2699		Report	
MON	D2700		Report	
(R+M)/2		88.5		
Sulfur, ppm	D2622		80	
Oxygenates, vol % ^{7/}	D4815, 5599		0.05	
Haze Rating ^{4/}	D4176		2	3
NACE Corrosion	TM0172, D7548	B+		
Odor ^{5/}			Nonoffensive	

A5. AMS Grade 88.5 Sub-Octane Premium Unleaded Gasoline Specifications (continued)

- 1/ Delivered products meets all applicable requirements at time and place of delivery.
- 2/ Refer to Magellan's Seasonal Gasoline Volatility Classes and Schedule of Origin Volatility requirements.
- 3/ Mercaptan Sulfur determination is waived if the result of the Doctor Test ASTM D4952 is negative.
- 4/ 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
- 5/ Any gasoline exhibiting an offensive odor and/or containing more than 0.30 wt % dicyclopentadiene will not be accepted for shipment.
- 6/ RVP limits on ethanol blended gasoline are controlled by various federal and state regulations and waivers, which are generally greater than the limits for base gasoline.
- 7/ Values below the detectible limit of an approved method may be reported as a zero value.

**NOTE: All parameters must be met without blending of denatured fuel ethanol unless noted.