



PL-NPA(4)/2016

# ATTOCK REFINERY LIMITED

## UNLEADED PREMIER MOTOR GASOLINE (PMG)

Sr.No.	Test Description	Unit	Test Method	Specifications	Min / Max
1	Colour (Visual)	-	-	Green	-
2	Odour	-	-	Marketable	-
3	Specific gravity 15.6°C. 15.6°C (60/60°F)	-	D1298 / D4052 / IP160	To be reported	-
4	Octane No. Research	-	D2699	90*	Min.
5	Distillation	°C (°F)	D86 / D7345		
	10% Vol. Recovered			80 (176)	Max.
	50% Vol. Recovered			125(257)	Max.
	90% Vol. Recovered			180(356)	Max.
	End point			205(401)	Max.
	Residue	vol %		2.0	Max.
6	Reid Vapour Pressure at (37.8°C)	kPa (PSI)	D323		
	(a) Summer (Mar-Oct)			62(9)	Max.
	(b) Winter (Nov-Feb)			69(10)	Max.
7	Sulphur	wt%	D1266 / D4294 /IP107	0.05	Max.
8	Copper strip corrosion at 50°C (122°F)	-	D130	1	Max.
9	Existent Gum	mg/100ml	D381	4	Max.
10	Induction period	Minutes	D525	No break down in 240 minutes	Min.
11	Appearance	-	-	Bright, Clear and free from water & suspended impurities	-
12	Dr. Test	-	D4952 / IP30	Negative	-
13	Benzene	vol%	D5134 / D4053	5.0	Max.
14	Lead Contents**	g/L	D3237 / D5059 /IP224 / IP352	0.013	Max.
15	Manganese Content	mg/L	ASTM D3831	24.0	Max.
16	Oxygenate Contents	vol%	D4815 / D5845		
	i) Ether Based ***			0.5	Max.
	ii) Alcohol Based (Ethanol/Methanol)			Non-detectable	-

\* PL-9 (544)/2015 dated 5th September 2016 Annex-I

\*\* No Intentional Addition of Lead Compounds

\*\*\* Unavoidable traces amount not more than (0.5% by vol.)