

REFINED PETROLEUM PRODUCTS SPECIFICATIONS

PREMIUM MOTOR SPIRITS (PMS) - GASOLINE

S/No	Characteristics	Requirements
1	Appearance	Clear and Bright
2	Color	Ox blood red
3	Free Water	Nil
4	Suspended Matter	Nil
5	Specific Gravity at 15/15 oC	0.720 – 0.780
6	Distillate Evaporated at: (a)70 oC, % (v/v), max (b)125 oC, % (v/v), max (c)180 oC, % (v/v), max	10 50 90
7	End Boiling Point, oC (max)	210
8	Residue, % (v/v), max	2
9	Copper Corrosion, 3h at 50 oC (max)	Class 1b
10	Sulphur Content, % (m/m)	0.10
11	Existent Gum (solvent-washed), mg/100mL, max	4
12	Oxidation Stability, oC (min)	360
13	Reid Vapor Pressure, kPa (max)	62.0 (9psi)
14	Lead Content, max	5ppm
15	Benzene, %m/m (max)	2.0
16	RON, min	90

AUTOMOTIVE GAS OIL - (AGO) DIESEL FUEL

S/No	Characteristics	Requirements
1	Appearance	Clear and Bright
2	Color, ASTM (max)	3.0
3	Specific Gravity at 15/15 oC	0.820-0.870
4	Acidity (inorganic acid)	Nil
5	Total Acid Number mgKOH/g (max)	0.50
6	Distillation: a) Percent recovery at 357 oC (v/v) (min) b) Final boiling point, oC (max)	90 385
7	Flash Point, oC (min)	66
8	Kinematic Viscosity at 37.8 oC (cSt)	1.6 – 5.6
9	Cloud Point, oC (max)	4.4
10	Conradson Carbon – Residue on 10% residue, % wt (max)	0.15
11	Ash, % wt, (max)	0.01
12	Copper Strip Corrosion, 3h at 100 oC	Not worse than No 1
13	Sediment, % wt. (max)	0.01
14	Total Sulphur, % vol. (max)	0.3
15	Water Content, % vol. (max)	0.05
16	Diesel Index (mm)	47

AVIATION KEROSENE - (DPK)

S/No	Characteristics	Requirements
1	Appearance	Clear and Bright
2	Color (Saybolt), (min)	+20
3	Specific Gravity at 15oC	0.775 – 0.825
4	Total Acidity, mgKOH/g, (max)	0.01
5	Distillation: (a)Percent recovery at 200 oC, % vol., (min) (b)Final boiling point, oC, (max)	20 300
6	Burning Quality: (a)Clean char (on oil consumed), mg/kg (max) (b)Bloom on glass chimney	15 Not darker than grey
7	Flash Point (Abel), oC (min)	45
8	Copper Corrosion, 2hr at 100, (max)	1b
9	Smoke Point, mm, (min)	22
10	Sulphur Content, % wt., (max)	0.14