

## HEAVY NAPHTA SPECIFICATION

SPECIFICATION	RESULT		UNIT	METHOD
	Min	Max		
Density @ 15.6°C	0.730	0.770	g/cm <sup>3</sup>	ASTM D1298/D4052
Distillation Of Petroleum Products in Atmospheric Pressure				
<b>IBP</b>	<b>90</b>	<b>105</b>	°C	ASTM D86
5%		115		
10%		120		
30%		130		
50%		140		
70%		145		
90%	140	165		
95%		170		
<b>FBP</b>		<b>180</b>		
Residue		1.5		
Loss		2	Vol %	
Total Sulfur (See Note 1)		300	Wt/ppm	ASTM D5453/D4294

## HEAVY END SPECIFICATION

SPECIFICATION	RESULT	UNIT	METHOD
Distillation Of Petroleum Products in Atmospheric Pressure			
<b>IBP</b>	<b>140 - 155</b>	°C	ASTM D86
10%	150 - 170		
30%	180 - 195		
50%	205 - 225		
70%	235 - 255		
90%	270 - 290		
95%	300 - 320		
<b>FBP</b>	<b>330 - 345</b>		
Residue	Max 2.0	v/v %	ASTM D86
Density @ 15°C	0.790 – 0.805	g/cm <sup>3</sup>	ASTM D1298
Flash Point	Min 45	°C	ASTM D93
Color	Max 2.5	-	ASTM D1500
Cetan Number	Min 47	-	ASTM D613
Cetan Index	Min 51	-	ASTM D976
Mercaptan Content	Max 300	ppm	ASTM D3227
Total Sulphur	Max 2000	ppm	ASTM D4294

## GASOIL 101 SPECIFICATION

SPECIFICATION	RESULT	UNIT	METHOD
Distillation Of Petroleum Products in Atmospheric Pressure			
<b>IBP</b>	<b>205- 215</b>	°C	ASTM D86
10%	225 - 235		
50%	240 - 250		
90%	250 - 260		
<b>FBP</b>	<b>265 - 275</b>		
Residue	Max 2.0	v/v %	ASTM D86
Density @ 15°C	0.820 – 0.830	g/cm <sup>3</sup>	ASTM D1298
Flash Point	80 - 85	°C	ASTM D93
Color	Max 1.5	-	ASTM D156
Cetan Number	49 - 51	-	ASTM D613
Cetan Index	53 - 55	-	ASTM D976
Total Sulphur	Max 4500	ppm	ASTM D4294
Viscosity @ 40°C	2.8 – 3.4	mm <sup>2</sup> /s	ASTM D445
Pour Point	-30	°C	ASTM D97
Copper Corrosion	1a	-	ASTM D130

## WHITE SPIRIT SPECIFICATION

SPECIFICATION	RESULT	UNIT	METHOD
Distillation Of Petroleum Products in Atmospheric Pressure			
<b>IBP</b>	<b>140- 150</b>	°c	ASTM D86
10%	155 - 165		
50%	185 - 195		
90%	200 - 210		
<b>FBP</b>	<b>210 - 220</b>		
Residue	Max 1.5	v/v %	ASTM D86
Density @ 15°C	0.775 – 0.785	g/cm <sup>3</sup>	ASTM D1298
Flash Point	38 - 45	°c	ASTM D93
Color	Max 0.5	-	ASTM D156
Cetan Number	-	-	ASTM D613
Cetan Index	-	-	ASTM D976
Total Sulphur	Max 700	ppm	ASTM D4294
Viscosity @ 40°C	-	mm <sup>2</sup> /s	ASTM D445
Pour Point	-30	°c	ASTM D97
Copper Corrosion	1a	-	ASTM D130

## METHANOL SPECIFICATION

SPECIFICATION	RESULT	UNIT	METHOD
Sp.Gr @( 20/20°C)	0.792_0.793	g/cm <sup>3</sup>	ASTM D1298/D4052
Distillation Range	Max 1 ( 64.6 °C ± 0.1 )	°C	ASTM D1078
Purity	Min 99.85	Wt %	Calculated
H <sub>2</sub> O	Max 0.1	Wt %	ASTM D1364
Color	Max 5	Apha	ASTM D1209
Carbonisable	Max 5	Apha	ASTM C0346
Acidity (As CH <sub>3</sub> -COOH)	Max 0.003	Wt%	ASTM D1613
Alkalinity (As NH <sub>3</sub> )	Max 0.003	Wt%	ASTM D1614
Hydrocabons	Passes Test	—	ASTM D1722
Fe	Max 0.05	Wt.ppm	ASTM E202
Chloride	Max 0.2	Wt.ppm	ASTM D512
Permanganate Time	Min 50	Minutes	ASTM D1363

## GASOIL 102 SPECIFICATION

SPECIFICATION	RESULT	UNIT	METHOD
Distillation Of Petroleum Products in Atmospheric Pressure			
<b>IBP</b>	<b>170 - 180</b>	°c	ASTM D86
10%	200 - 210		
50%	240 - 250		
90%	250 - 260		
<b>FBP</b>	<b>265 - 275</b>		
Residue	Max 2.0	v/v %	ASTM D86
Density @ 15°C	0.820 – 0.825	g/cm <sup>3</sup>	ASTM D1298
Flash Point	65 - 70	°c	ASTM D93
Color	Max 1.5	-	ASTM D156
Cetan Number	48 - 50	-	ASTM D613
Cetan Index	52 - 54	-	ASTM D976
Total Sulphur	Max 5000	ppm	ASTM D4294
Viscosity @ 40°C	2.8 – 3.4	mm <sup>2</sup> /s	ASTM D445
Pour Point	-30	°c	ASTM D97
Copper Corrosion	1a	-	ASTM D130

## LIGHT NAPHTA SPECIFICATION

SPECIFICATION	RESULT	UNIT	METHOD
Distillation Of Petroleum Products in Atmospheric Pressure			
<b>IBP</b>	<b>35 - 45</b>	°C	ASTM D86
10%	50 - 65		
30%	65 - 85		
50%	80 - 95		
70%	100 - 120		
90%	125 - 145		
95%	150 - 165		
<b>FBP</b>	<b>168 - 185</b>		
Residue	Max 1.0	v/v %	ASTM D86
Density @ 15°C	0.700 – 0.720	g/cm <sup>3</sup>	ASTM D1298
Color	Min 20	-	ASTM D158
Octan Number	78 - 80	-	ASTM D613
Mercaptan Content	Max 10	ppm	ASTM D3227
Total Sulphur	Max 300	ppm	ASTM D4294
Benzene Content	Max 3	Vol%	ASTM D6839/D6277/D 6730/D6729
Aromatic Content	Max 15	Vol%	ASTM D1319/D6839/D 5986/D5580

## BITUMEN 60-70 SPECIFICATION

TEST ITEMS	SPECIFICATION	METHOD	UNIT	RESULT
Penetration @ 25 °C	60 - 70	ASTM D5	0.1mm	<b>65</b>
Density @ 15 °C	Report	ASTM D70	Kg/m <sup>3</sup>	<b>1041.9</b>
Specific Gravity @ 25 °C	1.01 - 1.06	ASTM D70	--	<b>1.0368</b>
Softening Point (R & B)	Min 46	ASTM D36	°C	<b>49.6</b>
Ductility @ 25 °C,5Cm/Min	Min 100	ASTM D113	Cm	<b>&gt;100</b>
Flash Point	Min 230	ASTM D92	°C	<b>300</b>
Solubility in TCE	Min 99.5	ASTM D2042	%WT	<b>99.9</b>
Spot Test	Negative	AASHTO T102	--	Negative
Loss on Heating	Max 0.2	ASTM D6	Mass %	<b>0.03</b>
Drop in Penetration After Heating	Max 20	ASTM D6 & D5	%	<b>10.2</b>
Kinematic Viscosity@ 135 °C	--	ASTM D2170	CST	<b>639.6</b>
Dynamic viscosity@ 60 °C	--	ASTM D2171	Poise	<b>3583</b>