

GASOIL SPECIFICATION

No.	Characteristics	Requirements	Test Method*
1	Density at 15°C, kg / m ³	Max. 820-850	ASTM D4052
2	Distillation: Evaporation at 350°C, % by volume, Min	85	ASTM D86
3	Colour, Max	2,0	ASTM D1500
4	Flash point (pensky martens), °C Min.	55	ASTM D93
5	Kinematic Viscosity, 40 °C,cst	2,0 - 4,5	ASTM D445
6	Carbon residue on 10% vol. distillation residue, % by mass, Max	0,30	ASTM D189
7	Water Content % by volume max	0,2	ASTM D6304
	mg/kg by mass max	200	
8	Ignition quality: Cetane index **, min.	46,0	ASTM D976
9	Total acid number, mKOH/g, max	0,25	ASTM D664
10	Ash content, % mass, Max	0,1	ASTM D482
11	Total sulphur, mg/kg, Max.	50,0	ASTM D5453
12	Copper strip corrosion, 3h at 100 °C, Max	1b	ASTM D130
13	Water and Sediment, % Vol., Max	0,05	ASTM D2709
14	Particule Counts, Size Distribution	To be reported	ASTM D7619
15	Particule Matter, mg/l max	24,0	ASTM D6217
16	Fatty Acid Methyl Ester (FAME), % Vol., Max	5,0	ASTM D7371
17	Lubricity at 60C, (corrected wear scar diameter), microns, Max	460	ASTM D6079
18	Oxidation Stability, g/m ³ , Max	25	ASTM D2274
19	Polycyclic Aromatic Hydrocarbons, % m/m	To be reported	ASTM D5186

GASOLINE SPECIFICATION

PARAMETER	UNIT	REQUIREMENTS (REGULAR GRADE)	REQUIREMENTS (PREMIUM GRADE)	TEST METHODS
Research Octane number	Min	91	95	ASTM D2699
Reid Vapour pressure	kPa, Max	65	65	ASTM D323
Distillation				ASTM D86
• Temperature, C, Max for i) 10% evaporated		70	70	
ii) 50% evaporated		120	120	
iii) 90% evaporated		190	190	
• Final boiling point		210	210	
• Residue		2,0	2,0	
Aromatics	%v/v, Max	35	35	ASTM D5580
Benzene	%v/v, Max	1,0	1,0	ASTM D6277
Density at 15 °C	kg/m3, Max	720 - 755	720 - 755	ASTM D4052
Total Sulphur	mg/kg, Max	50,0	50,0	ASTM D5453
Copper Corrosion, 3h at 40 °C	Max	1b	1b	ASTM D130
Gum content (solvent washed)	mg/100ml, Max	5,0	5,0	ASTM D381
Lead content (pb)	mg/l, Max	5,0	5,0	ASTM D3237
Oxidation stability at 100 C	minutes Min	360	360	ASTM D525
Colour		Red	Green	Visual
Dye Content	mg/kg, Max	1.3	1.3	ASTM D6756
Olefins	%v/v	18	18	ASTM D6296
Oxygenates		To be reported	To be reported	ASTM D5599
Alcohols	%v/v, Max	NIL	NIL	ASTM D5599
Esthers	%v/v, Max	To be reported	To be reported	ASTM D5599
Others	%v/v, Max	To be reported	To be reported	ASTM D5599