

Automotive Diesel (Automotive Gas Oil)

No.	Characteristic / Property	Requirements	Test Method * (ASTM)
1	Density at 15 ^o C, kg/m ³ , (Min-Max)	820 - 850	ASTM D4052
2	Distillation: Evaporation at 350 ^o C, % by volume, Minimum	85	ASTM D86
3	Colour, Maximum	1.5	ASTM D1500/Saybolt
4	Flashpoint (Pensky-Martens) ^o C, Min.	55	ASTM D93
5	Kinematic Viscosity, 40 ^o C, cSt	2.0 – 4.5	ASTM D445
6	Carbon Residue on 10% vol. distillation residue, % by mass, Min. - Max.	0 – 30	ASTM D189
7	Water Content, % by Volume – Maximum or mg/kg by mass	0 – 02 200	ASTM D6304
8	Ignition Quality: Cetane Index ** Min.	46	ASTM D976
9	Total Acid Number, mg/KOH/g, Min – Max	0 – 25	ASTM D 664
10	Ash Content, % mass, Maximum	0 – 01	ASTM D482
11	Total Sulphur, mg/kg, Min – Max Maximum	50 mg/kg 50 ppm	ASTM D5453
12	Copper Corrosion, 3h at 100 ^o C, Max.	1b	ASTM D130
13	Water and Sediment, % Vol., Max	0 – 05	ASTM D2709
14	Particulate Contamination, Size Distribution	To be reported	ASTM D7619
15	Particulate matter, mg/l Maximum	24 – 0	ASTM D217
16	Fatty Acid Methyl Ester (FAME) % Vol. Maximum	0 – 5	ASTM D7371
17	Lubricity at 60 ^o C (Corrected wear scar diameter) Micros, Max	460	ASTM D6079
18	Oxidation Stability, gm/m ³ , Maximum	25	ASTM D2274
19	Polycyclic Aromatic Hydrocarbons, % m/m	To be reported	ASTM D5186