

DIESEL SPECIFICATION: EUROPE CEC-RF-06-08 B5 (EU V)

Parameter	Method	Unit	Specification
Cetane number	EN ISO 5165		52.0 to 54.0
Density @ 15°C	ISO 12185	kg/m ³	833.0 to 837.0
Density @ 4°C	EN ISO 12185	kg/m ³	
Density @ 15°C	EN ISO 12185	kg/m ³	
Distillation 50 % v/v	EN ISO 3405	°C	245.0 min
Distillation 95% v/v	EN ISO 3405	°C	345.0 to 350.0
Distillation FBP	EN ISO 3405	°C	370.0 max
Flash point	EN ISO 2719	°C	55
CFPP	EN 116	°C	-5 max
Viscosity @ 40°C	EN ISO 3104	mm ² /s	2 300 to 3 300
Mono-Aromatics MAH	IP 391	% vol	
Di-Aromatics DAH	IP 391	% vol	
Poly-Aromatics PAH	IP 391	% vol	
Polycyclics DAH & PAH	IP 391	% wt	3.0 to 6.0
Total Aromatics	IP 391	% vol	
Sulphur	EN ISO 20846	mg/kg	10 max
Corrosion –copper	EN ISO 2160		
Carbon residue 10% dist residue	EN ISO 10370	% wt	0.2 max
Ash content	EN ISO 6245	% wt	0.010 max
Water	EN ISO 12937	% wt	200 max
Strong acid number KOH/g	ASTM D974	mg KOH/g	0.02 max
Oxidation stability, per 100 ml	EN ISO 12205	mg/100ml	2.5 max
HFRR (wsd 1.4)	EN ISO 12156-1	μ	400 max
Hydrogen	ASTM D3343	% wt	
Carbon	ASTM D3343	% wt	
C:H ratio (H=1)	ASTM D3343		
H:C ration (C=1)	ASTM D33438		
Net hearing value	ASTM D3338	MJ/kg	
Net hearing value	ASTM D3338	Btu/lb	

EUROPEAN GASOLINE SPECIFICATION CEC RF-02-08 E5 (EU 5 GASOLINE)

PARAMETER	UNITS	LIMITING VALUES		TEST METHOD	PUBLISHED
		Min. VALUE	Max. VALUE		
RON	-	95	-	EN 25164	1993
MON	-	85	-	EN 25163	1993
Density at 15°C	kg/m ³	748	775	ISO 12185	1995
Vapour Pressure	kPa	56	95	EN 13016-1	1993
Start of Boiling	°C	24	40	EN-ISO 3405	1988
At 100 evaporated	Vol. %	49	57	EN-ISO 3405	1988
At 150 evaporated	Vol. %	81	87	EN-ISO 3405	1988
Stopping of Boiling	°C	190	215	EN-ISO 3405	1988
Residuals	%	-	2	EN-ISO 3405	1988
Analyses of Hydrocarbons	-	-	-	-	-
Olefin	Vol. %	-	10	ASTM D 1319	1995
Aromatics	Vol. %	28	40	ASTM D 1319	1995
Benzol	Vol. %	-	10	pr. EN 12177	1998
Alkane	-	-	Rest	ASTM D 1319	1995
Ratio Carbon/Hydrogen	-	Recorded value	Recorded value	-	-
Oxidation Stability					
Induction Period	Minutes	480	-	EN-ISO 7536	1996
Existent Gum	Mg/100ml	-	4	EN-ISO 6246	1997 (2)
Contents of Oxygen	Mass. %	-	2.3	EN 1601	1997
Residual from evaporation	Mg/ml	-	0.04	EN-ISO 6246	1997
Contents of Sulphur	Mg/g	-	100	EN-ISO 20846	1998
Copper Corrosion at 50°C	-	-	1	EN-ISO 2160	1995
Contents of lead	g/l	-	0.005	EN 237	1996
Phosphorus	g/l	-	0.0013	ASTM D 3231	1994