



LIONSTONE

ENERGY

TYPICAL SPECIFICATION OF EN590-10PPM (ULSD)

CHARACTERISTICS	UNITS	LIMITS	TEST METHODS		
			EN STANDARDS	UNE STANDARDS	ASTM STANDARDS
Cetane number		min. 51.0	EN ISO 5165 EN 15195	UNE-EN ISO 5165 UNE-EN 15195	D613
Cetane index		min. 46.0	EN ISO 4264	UNE-EN ISO 4264	D4737
Density at 15°C		820 to 845	EN ISO 3675 EN ISO 12185	UNE-EN ISO 3675 UNE-EN ISO 12185	D4052 D1298
Polycyclic aromatic Hydrocarbons	% m/m	max. 8	EN 12916	UNE-EN 12916	
Sulphur content	mg/kg	max. 10	EN ISO 20846 EN ISO 20884	UNE-EN ISO 20846 UNE-EN ISO 20884	
Distillation (vol. % recovered)					
65% V/V collected	°C	min. 250			
85% V/V collected	°C	max. 350			
95% V/V collected	°C	max. 360	EN ISO 3405	UNE-EN ISO 3405	D86
Kinematic viscosity at 40°C	mm ² /s	2.00 to 4.50	EN ISO 3104	UNE-EN ISO 3104	D445
Flash point	°C	higher than 60	EN ISO 2719	UNE-EN ISO 2719	D93
Cold filter plugging point (POFF):					
Winter (15 th Sep to 31 st Mar)	°C	max. -10	EN 116	UNE-EN 116	
Cloud point:					
Winter (15 th Sep to 31 st Mar)	°C	max. 0	EN 23015	UNE-EN 23015	D2500 D5772
Carbon residue (on 10% distillation residue)	% m/m	max. 0.3	EN ISO 10370	UNE-EN ISO 10370	D4530
Lubricity, corrected w	µm	max. 460	EN ISO 12156-1	UNE-EN ISO 12156-1	
Water content	mg/kg	max. 200	EN ISO 12937	UNE-EN ISO 12937	
Total contamination (Solid particles)	mg/kg	max. 24	EN 12662	UNE-EN 12662	
Ash content	% m/m	max. 0.01	EN ISO 6245	UNE-EN ISO 6245	D482
Corrosion to copper (3h at 50°C)	ASTM scale	max. 1h	EN ISO 2160	UNE-EN ISO 2160	D130
Oxidation stability	g/m ³	max. 25	EN ISO 12205	UNE-EN ISO 12205	D2274
Oxidation stability	hours	min. 20	EN 15751	UNE-EN 15751	
Colour	ASTM scale	max. 2			D2274 D6045
Transparency and gloss		complies			D4176

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