

EN 590
ULSD 10ppm STANDARD

EN 590 Fuel Standard
for Marine ULSD (B0) with maximum 10 mg/kg sulphur content



REQUIREMENTS FOR MARINE DISTILLATE FUELS

Characteristic	Unit	Limit	EN 590 ULSD 10ppm	Test method(s) and references	
Appearance @ 20 °C	–		Clear and Bright	Visual inspection	
Colour	ASTM	Max	2.5	ASTM D6045	
Density at 15 °C	kg/m³	Min Max	820.0 845.0	EN ISO 3675 / 12185	
Viscosity at 40 °C	mm²/s	Min Max	2.00 4.50	EN ISO 3104	
Cetane index	–	Min	46.0	EN ISO 4264	
Sulphur content	mg/kg	Max	10.0	EN ISO 20884 / 20846	
Cetane number	–	Min	51.0	EN ISO 5165 / EN 15195 / 16144	
Lubricity	µm	Max	460	EN ISO 12156-1	
Flash point	°C	Min	60	EN ISO 2719	
Content of Fatty Acid Methyl Esters (FAME)*	% (v/v)	Max	7	EN 14078	
Cloud Point:					
Summer Intermediate Winter	(April - September) (March / October / November) (November - February)	°C	Max Max Max	+4°C 0°C -5°C	EN 23015
CFPP:					
Class B Class C	– April - September – October - March	°C	Max Max	0°C -10°C	EN 116 / 16329
Carbon residue (on 10% distillation residue)	% m/m	Max	0.30	EN ISO 10370	
Ash content	% m/m	Max	0.01	EN ISO 6245	
Copper strip corrosion (3h at 50°C)	rating	Class1	Class 1	EN ISO 2160	
Water content	mg/kg	Max	200	EN ISO 12937	
Total contamination	mg/kg	Max	24	EN 12662	
Distillation					
	recovered at 250 °C	vol %	Max	65	EN ISO 3405
	recovered at 350 °C	vol %	Min	85	
	95% recovered at		Max	360	
Polycyclic aromatic hydrocarbons	% m/m	Max	8	EN 12916	
Oxidation Stability	g/m³	Max	25	EN ISO 12205	