

Characteristics	Unit	Limit	Category ISO-F-						Test method(S) and reference	
			DMX	DMA	DFA	DMZ	DFZ	DMB		DFB
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s (1 cSt)	Max	5,500	6,000		6,000		11,00	ISO 3104	
		Min	1,400	2,000		3,000		2,000		
Density at 15 °C	kg/m <sup>3</sup>	Max	---	890,0		890,0		900,0	ISO 3675 or ISO 12185	
Cetane index		Min	45	40		40		35	ISO 4264	
Sulfur	mass %	Max	1,00	1,00		1,00		1,50	ISO 8754 or ISO 14596, ASTM D4294	
Flash Point	°C	Min	43,0	60,0		60,0		60,0	ISO 2719	
Hydrogen sulfide	mg/kg	Max	2,00	2,00		2,00		2,00	IP 570	
Acid number	mg KOH/g	Max	0,5	0,5		0,5		0,5	ASTM D664	
Total sediment by hot filtration	mass %	Max	---	---		---		0,10	ISO 10307-1	
Oxidation stability	g/m <sup>3</sup>	Max	25	25		25		25	ISO 12205	
Fatty acid methyl ester (FAME)	volume %	Max	---	---	7,0	---	7,0	---	7,0	ASTM D7963 or IP 579
Carbon residue - Micro method on the 10 % volume distillation residue	mass %	Max	0,30	0,30		0,30		0,30	ISO 10370	
Carbon residue - Micro method	mass %	Max	---	---		---		0,30	ISO 10370	
Cloud point	winter	°C	Max	-16	report	report		---	ISO 3015	
	summer	°C	Max	-16	---	---		---		
Cold filter plugging point	winter	°C	Max	---	report	report		---	IP 309 or IP 612	
	summer	°C	Max	---	---	---		---		
Pour point (upper)	winter	°C	Max	---	-6	-6		0	ISO 3016	
	summer	°C	Max	---	0	0		6		
Appearance									Clear & Bright	
Water	volume %	Max	---	---		---		0,30	ISO 3733	
Ash	mass %	Max	0,010	0,010		0,010		0,010	ISO 6245	
Lubricity, corrected wear scar diameter (WSD) at 60 °Ch	µm	Max	520	520		520		520	ISO 12156-1	

