

Att. No. 1b - Requirements and quality for ORLEN Unipetrol RPA s.r.o.

All quality parameters are in compliance with
ČSN EN 14214+A2 : 2019 (idt. EN 14214+A2 : 2019)

Parameter	Unit	min.	max.
Ester content		96,5	
Density at 15 °C	kg/m ³	860	900
Viscosity at 40 °C	mm ² /s	3,50	5,00
Flash point	°C	101	
Sulfur content	mg/kg		10,0
Cetane number		51,0	
Sulphated ash content	% (m/m)		0,02
Water content	mg/kg		500
Total contamination	mg/kg		24
Copper strip corrosion (3 h at 50 °C)	rating	class 1	
Oxidation stability	h	8,0	
Acid value			0,50
Iodine value			120
Linolenic acid methyl ester	% (m/m)		12,0
Polyunsaturated (≥ 4 double bonds) methyl esters	% (m/m)		1,0
Methanol content	% (m/m)		0,20
Monoglyceride content	% (m/m)		0,70
Diglyceride content	% (m/m)		0,20
Triglyceride content	% (m/m)		0,20
Free glycerol	% (m/m)		0,02
Total glycerol	% (m/m)		0,25
Group 1 metals (Na + K)	mg/kg		5,0
Group 2 metals (CA + Mg)	mg/kg		5,0
Phosphorus content	mg/kg		4,0
Climate dependent requirements			
FAME in 100 % concentration			
CFPP			
Grade B (15.04.-30.09.)	°C		0
Grade D (1.03.-14.04.; 1.10.-15.11.)	°C		-10
Grade F (16.11.-28.02.)	°C		-20
FAME as blending component for Diesel			
a) cold flow properties:			
Class d (15.04.-30.09.)			
Cloud point	°C		5
CFPP*	°C		0
Class f (1.10.- 14.04.)			
CP	°C		-3
CFPP	°C		-10
b) Monoglyceride content			
Class 6 (all year)	% (m/m)		0,7
*CFPP+5 can be considered by the Buyer in July and August (1.7. – 31.8.) - to be confirmed.			
Note 1: Producer shall put antioxidant into each batch before delivery as soon as possible after production.			
Note 2: Each delivery shall be attended by atest with all parameters above.			
Note 3: For FAME as blending component for Diesel, the given cold flow values (CP, CFPP) are without any additives for reducing flow properties at low temperatures (e.g. depresants).			
Note 4: Each supplied batch shall be supplied with declaration of sustainability of biofuels.			