

## Specification FAME with CFPP -20°C

Property	Limits	Unit	Test method
FAME content	min. 96,5	% (m/m)	EN 14103
Density at 15°C	860 – 900	Kg/m <sup>3</sup>	EN ISO 3675
Viscosity at 40°C	3,50 – 5,00	mm <sup>2</sup> /s	EN ISO 3104
Flash point	min. 101	°C	EN ISO 2719 EN ISO 3679
Sulfur content	max. 10	mg/kg	EN ISO 20846 EN ISO 20884
Carbon residue (on 10% distillation residue)	max. 0,30	mg/kg	EN ISO 10370
Cetane number	min. 51,0	-	EN ISO 5165
Sulfated ash content	max. 0,02	% (m/m)	ISO 3987
Water content	max. 300	mg/kg	EN ISO 12937
Total contamination	max. 20	mg/kg	EN 12662
Cooper strip corrosion (3h at 50°C)	class 1	rating	EN ISO 2160
Oxidation stability, 110°C	min. 8	hours	EN 14112
Acid value	max. 0,50	mg KOH/g	EN 14104
Iodine value	max. 120	g iodine/100g	EN 14111
Linolenic acid methyl ester	max. 12,0	% (m/m)	EN 14103
Polyunsaturated (>= 4 double bonds) methyl esters	max. 1	% (m/m)	-
Methanol content	max. 0,20	% (m/m)	EN 14110
Monoglyceride content	max. 0,80	% (m/m)	EN 14105
Diglyceride content	max. 0,20	% (m/m)	EN 14105
Triglyceride content	max. 0,20	% (m/m)	EN 14105
Free glycerol	max. 0,02	% (m/m)	EN 14105
Total glycerol	max. 0,25	% (m/m)	EN 14105
Group I metals (Na+K)	max. 5,0	mg/kg	EN 14538
Group II metals (Ca+Mg)	max. 5,0	mg/kg	EN 14538
Phosphorus content	max. 4,0	mg/kg	EN 14107
CFPP	max. -20	°C	EN 116

contains 100 ppm oxidation stabilizer IONOL BF350

contains Cold Flow improver Chimec CH 6830

	Abteilung	Durchführender	Datum
erstellt	Labor/QM	Jankovich	02.04.2011