EFIX S 55 DIESEL [3, 4, 11, 12, 13]

USE: AS FUEL FOR DIESEL ENGINES

PROPERTY	UM	LIMITS		TEST METHOD
		Min.	Max.	
Cetane number		55,0 53,0[5]	-	ASTM D 613-23[2] / SR EN ISO 5165:2020[2] EN ISO 5165:2020[2] / ISO 5165:2020[2]
Cetane index		46,0	-	SR EN ISO 4264:2018[2] / EN ISO 4264:2018[2] / ISO 4264:2018[2] / ASTM D 4737-21[2]
Density at 15 °C	kg/m^3	820,0[7] 800,0[5] 815,0[6]	845,0[7] 845,0[5] 845,0[6]	ASTM D 4052-22[2] / ASTM D 1298-12b(2017)e1/SR EN ISO 3675:2002 / SR EN ISO 3675:2002 / C91:2005 / EN ISO 3675:1998 ISO 3675:1998 / SR EN ISO 12185:2003[2] / EN ISO 12185:1996[2] ISO 12185 :1996[2]
Polycyclic aromatic hydrocarbons[9]	% (m/m)	-	8,0	SR EN 12916:2019+A1:2022[2] / EN 12916:2019+A1:2022[2]
Sulfur content	mg/kg	-	10,0	SR EN ISO 20846 :2020[2] / EN ISO 20846 :2019[2] / ISO 20846 :2019[2] SR EN ISO 20884 :2020[2] ; SR EN ISO 20884 :2020[2]/A1 :2021[2] / EN ISO 20884 :2019[2] ; EN ISO :2019[2]/A1 :2021[2] / ISO 20884 :2019[2] ; ISO 20884 :2019[2]/Amd1 :2021[2] ASTM D 2622-21[2] / ASTM D 5453-19a[2]
Manganese content[9]	mg/l	-	2,0	IP 592/11[2]
Flash point	°C	Above 55,0	-	SR EN ISO 2719:2016[2;] SR EN ISO 2719:2016/A1:2021[2] / EN ISO 2719:2016[2;] EN ISO 2719:2016/A1:2021[2] / ISO 2719:2016[2] ; ISO 2719:2016/AMD1:2021[2] ASTM D 93-20[2]
Carbon residue (in 10% distillation residue)	% (m/m)	-	0,30	SR EN ISO 10370:2015[2] / EN ISO 10370:2014[2] / ISO 10370:2014[2] ASTM D 4530-15(2020)[2]
Ash content	% (m/m)	-	0,010	SR EN ISO 6245:2003[2] / EN ISO 6245:2002[2] / ISO 6245:2001[2] / ASTM D 482-19[2]
Water content	% (m/m)	-	0,020	SR EN ISO 12937:2001[2] ; SR EN ISO 12937:2001[2] / C91:2014[2] /EN ISO 12937:2000[2] / ISO 12937:2000[2]
Total contamination	mg/kg	-	24	SR EN 12662:2014[2] / EN 12662:2014[2]
Copper strip corrosion (3 h at 50°C)	rating	class 1		ASTM D 130-12 / SR EN ISO 2160:03[2] / EN ISO 2160:98[2] ISO 2160:98[2]
Fatty acid-methyl ester (FAME) content	%(v/v)	[8)]	7	SR EN 14078:2014[2]
Oxidation stability[9]	g/m^3	-	25[9]	SR EN ISO 12205:1999[2] / EN ISO 12205:1996[2] / ISO 12205:1995[2]
Oxidation stability for diesel fuel containing FAME above 2,0 % (V/V)[9]	h or min	20,0 or 60,00	- -	SR EN 15751:2014[2] / EN 15751:2014[2] sau EN 16091
Lubricity, wear scar diameter (wsd 1,4) at 60 °C[10]	µm	-	460	SR EN ISO 12156-1:2019[2] / EN ISO 12156-1:2018[2] ISO 12156-1:2018[2] / ASTM D 6079-22[2]
Viscosity at 40°C	mm^2/s	2,000 1,500[5]	4,500 4,000[5]	ASTM D 445-21e2[2] / SR EN ISO 3104:2020[2] / EN ISO 3104:2020[2] / ISO 3104:2020[2]
Distillation: %(v/v) recovered at 180 °C[5]	% (v/v)	-	10	ASTM D 86-23[2] SR EN ISO 3405:2019[2] EN ISO 3405:2019[2] ISO 3405:2019[2]
%(v/v) recovered at 250 °C	% (v/v)	-	<65	
%(v/v) recovered at 340 °C[5]	% (v/v)	95	-	
%(v/v) recovered at 350 °C	% (v/v)	85	-	
95 % (v/v) recovered at	°C	-	360	

Cold filter plugging point (CFPP), maxim:	All CFPP grades							
– Summer [1]	Class,	A	B	C	D	E	F	ASTM D 6371-17a[2]
	°C	+5	0	-5	-10	-15	-20	
– Intermediate [1]	Class,	-		D		E		SR EN 116:16[2]
	°C			-10		-15		EN 116:15[2]
– Winter [1]	Class,	-		E	F	0[1]		
	°C			-15	-20	-20		
Cloud point [5]: Class 0	° C	-		-10				ASTM D 2500-23[2] / SR EN 3015:2019[2] EN ISO 3015:2019[2] / ISO 3015-19[2]

NOTES: 1) Summer: May, 1st – September, 30th; Intermediate October, 1st – November 15th and March, 15th – April 30th; Winter: November 16th – March, 14th; Class 0: November, 16th – March, 14th; 2) Accredited test by RENAR 3) During the winter time, the product will supplementary contain additive against wax deposition 4) Product certified by RAR 5) Specific for 0 class (according to SR EN 590:2022 - tabel 3 – arctic climates or with severe winters) ; 6) Specific for D, E, F classes (according to EN 590 :2022 - tabel 2 – temperate climates) ; 7) Specific for A, B, C classes (according to SR EN 590 - tabel 2 – temperate climates) ; 8) The bio-component content will respect the laws in force at the time of product batch manufacturing; 9) This condition is guaranteed by the manufacturing technology and it is checked weekly ; 10) For diesel with EMAG content exceeding 4.0% (v / v) this condition is guaranteed by the manufacturing process and does not require determination; 11) The product contains a set of multipurpose additives which prevent deposits on valves and injection nozzles, having favourable effects upon the fuel consumption and emissions; 12) The fuel meets all the requirements of the SR EN 590 standard in force; 13) Product's commercial name: Efix S Diesel 55, and for winter period can be used also Efix S Winter Diesel 55.

Quality control: control is done on lot/batch.
Each batch will be tank size (max. 7,500 tones). The lot (batch) will have product of same type.
During testing, the product must comply with all parameters depicted in standard specification for corresponding product/type. If not, the batch is rejected.
The quality of delivered product is certified by Conformity Declaration issued in accordance with the national legislation in force.
In case of litigation, the quality control will be done using the samples kept for these cases, sampling being done in accordance with the sampling procedure.
Sampling procedure: SR EN ISO 3170:2004/SR EN ISO 3170:2004/C91:05/ASTM D 4057-22
Information about handling, transportation and storage: according to Safety Data Sheet 2.6 T.

The Integrated Management System is certified according to the following standards:

- ISO 9001
- ISO 14001
- ISO 45001
- ISO 50001

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025.