

EURO 5 DIESEL^{3,6}

USE: AS FUEL FOR DIESEL ENGINES

PROPERTY	MU	LIMITS		TEST METHOD
		Min.	Max.	
Density at 15 °C	kg/m ³	820 800 ⁵	845 845 ⁵	ASTM D 4052-96 (02) ² / ASTM D 1298-99(05) ² SR EN ISO 3675:02 ² / SR EN ISO 3675:02 ² / C91:05 SR EN ISO 12185:02 ²
Cetane number		51.0	-	ASTM D 613-05 ² / SR EN ISO 5165:01 ²
Cetane index		46.0	-	SR EN ISO 4264-08 ² / ASTM D 4737-04 ²
Flash point	°C	>55	-	ASTM D 93-07 ² / SR EN ISO 2719:03 ²
Cold filter plugging point(CFPP):	°C			ASTM D 6371-05 ² /
-class A ¹		-	+5	SR EN 116:02 ² / SR EN 116:02/ AC:02 ²
-class B ⁴		-	0	
-class C ⁴		-	-5	
-class D ⁴		-	-10	
-class E ¹		-	-15	
-class F ¹		-	-20	
-class 0 ¹		-	-20	
-class 1 ¹		-	-26	
Sulfur content	mg/kg	-	10.0	ASTM D 2622-07 ² 04 / ASTM D 5453-06 ² ISO 20846-04 / SR EN ISO 20846-04 ²
Water content	mg/kg	-	200	SR EN ISO 12937:01 ² / SR ISO 760-94 ²
Viscosity at 40°C	mm ² /s	2.00 1.50 ⁵	4.50 4.00 ⁵	ASTM D 445-06 ² SR EN ISO 3104:02 ² / SR EN ISO 3104:02 / AC:02 ²
Distillation:				
% (v/v) recovered at 180 °C ⁵	% (v/v)	-	10	ASTM D 86-07a ² / SR EN ISO 3405:03 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	
Ash content	% (m/m)	-	0.01	SR EN ISO 6245:03 ² / ASTM D 482-03 ²
Copper strip corrosion (3 hrs. at 50°C)	rating		class 1	ASTM D 130-04 ² / SR EN ISO 2160:02 ²
Carbon residue (in 10% distillation residue)	% (m/m)	-	0.30	SR EN ISO 10370:02 ² / ASTM D 4530-06 ²
Polycyclic aromatic hydrocarbons	% (m/m)	-	11	SR EN 12916:06 ² / EN ISO 12916-00
Total contamination	mg/kg	-	24	SR EN 12662:02 ²
Oxidation stability	g/m ³	-	25	ASTM D 2274-03a ² / SR EN ISO 12205:99 ²
Lubricity, corrected wear scar diameter (wsd 1,4) at 60°C	µm	-	460	ASTM D 6079-04 ² / SR EN ISO 12156-1:07 ²
Content of fatty acid-methyl ester (FAME)	% (v/v)	7)	5	SR EN 14078-04
Cloud point ⁵ :	°C			
-class 0		-	-10	ASTM D 2500-05 ² / SR EN 23015-97 ²
-class 1		-	-16	

NOTES: **1)** Class A - from May, 1 to September, 30; class E - from October, 1 to November, 14 and from March, 1 to April, 30; class F - from November, 15 to February, 28; class 0 - from December, 15 to February, 15; class 1 - from December, 15 to February, 15; **2)** Accredited test by RENAR **3)** During November, 15 - February, 28 the product will supplementary contain additive against wax deposition **4)** Produced by customer's request **5)** Specific for 0 and 1 classes (according to SR EN 590:2004-table 2b-arctic climates or with severe winters). **6)** Name at the distribution pump: **Super Diesel Euro 5**, SR EN 590 and, only for classes 0 and 1, **Winter Diesel**, SR EN 590 **7)** According with GO 456/16.05.2007

Quality control: control is done on lot.

Each batch will have max. 7,500 tones for delivery in tank wagons or tank capacity for pipelines. The lot 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.

In case of litigious, the quality control will be done using the samples kept for these cases, sampling being done in accordance with the sampling procedure.

NOTE: A sample is analyzed in the supplier laboratory and the second is kept for three months after delivery, at buyer's disposal, for an eventual control.

Sampling procedure: according to SR EN ISO 3170:2004 / SR EN ISO 3170:2004/C91:05/ASTM D 4057- 06

Informations about handling, transportation and storage: according to "Material Safety Data Sheet" FDS-2.6 T.

Quality-environment-safety integrated Management System is certified by Germanischer Lloyd Certification according to the following standards:

- DIN EN ISO 9001:2000 - certificat no. QS-1252 HH / 18.03.2008
- DIN EN ISO 14001:2004 - certificat no. EM-2938 HH / 18.03.2008
- OHSAS 18001:1999 – Certificate no. S-4324 HH / 09.02.2007

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025:2005 and has the accreditation certificate No. LI 333 / 04.02.2008.

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