

SUPER EURO 4 DIESEL

USE: AS FUEL FOR DIESEL ENGINES

PROPERTY	UM	LIMITS		TEST METHOD
		Min.	Max.	
Density at 15 °C	kg/m ³	820	845	ASTM D 4052-09 ² / ASTM D 1298-99(05) ² / SR EN ISO 3675:02 ² SR EN ISO 3675:02 ² / C91:05 ² / EN ISO 3675:98 ² / ISO 3675:98 ² SR EN ISO 12185:02 ² / EN ISO 12185:96 ² / ISO 12185-96 ²
Cetane number		51,0	-	ASTM D 613-05 ² / SR EN ISO 5165:03 ²
Cetane index		46,0	-	SR EN ISO 4264-08 ² / ASTM D 4737-09 ²
Flash point	°C	55	-	ASTM D 93-10a ² / SR EN ISO 2719:03 ²
Cold filter plugging point (CFPP), maxim:	°C			
- Summer ¹		-	+5	ASTM D 6371-05 ² / SR EN 116:02 ² / SR EN 116:02 / AC:02 ²
- Winter ¹		-	-15	
Sulfur content	mg/kg	-	50,0	ISO 20884-11 / SR EN ISO 20884-11 ² / ASTM D 2622-08 ² ISO 20846-04 / SR EN ISO 20846-04 ² / ASTM D 5453-09 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	4,50	ASTM D 445-11 ² SR EN ISO 3104:02 ² / SR EN ISO 3104:02 / AC:02 ²
Distillation:				ASTM D 86-10a ²
%(v/v) recovered at 250 °C	% (v/v)	-	<65	SR EN ISO 3405:11 ²
%(v/v) recovered at 350 °C	% (v/v)	85	-	EN ISO 3405:11 ²
95 % (v/v) recovered at	°C	-	360	ISO 3405:11 ²
Ash content	% (m/m)	-	0,01	SR EN ISO 6245:03 ² / ASTM D 482-07 ²
Copper strip corrosion (3 hrs. at 50°C)	rating		class 1	ASTM D 130-04 ² / SR EN ISO 2160:03 ²
Carbon residue (in 10% distillation residue)	% (m/m)	-	0,30	SR EN ISO 10370:02 ² / ASTM D 4530-07 ²
Polycyclic aromatic hydrocarbons	% (m/m)	-	11	SR EN 12916:06 ² / EN 12916-06 ²
Total contamination	mg/kg	-	24	SR EN 12662:08 ²
Oxidation stability	g/m ³	-	25	ASTM D 2274-03a(08) 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

NOTES: 1) Summer: April 1st – September, 30; Winter: October 1st – March 31; **2)** Accredited test by RENAR

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 "Safety Data Sheet" FDS-2.6 T.

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

- ISO 9001:2008
- ISO 14001:2004
- BS OHSAS 18001:2007

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025:2005.

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