



Warter Group



WARTER FUELS SPÓŁKA AKCYJNA

02-967 Warszawa, ul. Koraliowa 60

Quality certificate no.

260BR_IN/A/324

02-09-2026

Product:

Aviation gasoline AVGAS 100LL

Specifications according to:

WT 09/OBR PR/PD/48

Research unit:

WARTER FUELS SPÓŁKA AKCYJNA

Producer:

WARTER FUELS SPÓŁKA AKCYJNA

Sample no.

260BR_IN/1417

Lot no: 26/IN/330

Lot size:

Tank no:

BB 011

Tanker no.

Date of sampling:

01-09-2026 17:30

Date of sample delivery:

01-09-2026

Date of the test:

02-09-2026

FULL SPECIFICATION TEST

No.	Properties	Unit	Results	Limits	Method
1	Appearance	-	pure clear liquid no particles solid and undissolved water in temperature environments		ASTM D 4176-22E1 METODA 1
2	Colour	-	blue	blue	ASTM D2392-15 (2021)
3	Density at 15 °C	kg/m ³	718,9		ASTM D 4052-22
4	Initial Boiling Point	°C	34,9		ASTM D 86-23AE2
5	10 % (V/V)	°C	65,5	max. 75	ASTM D 86-23AE2
6	40 % (V/V)	°C	97	min. 75	ASTM D 86-23AE2
7	50 % (V/V)	°C	101,2	max. 105	ASTM D 86-23AE2
8	90 % (V/V)	°C	109	max. 135	ASTM D 86-23AE2
9	Final Boiling Point	°C	127,6	max. 170	ASTM D 86-23AE2
10	Recovery volume percent	%(V/V)	97,6	min. 97	ASTM D 86-23AE2
11	Residue	%(V/V)	1,2	max. 1,5	ASTM D 86-23AE2
12	Loss	%(V/V)	1,2	max. 1,5	ASTM D 86-23AE2
13	Sum of 10% and 50% Evaporated Temperatures	°C	166,7	min. 135	ASTM D 86-23AE2
14	Reid vapour pressure at 37,8 C	kPa	44	min. 38 - max. 49	ASTM D 5101-22
15	Electrical conductivity at 20 C	pS/m	307	min. 50 - max. 450	ASTM D 2624-24
16	Lead Content	g/liter	0,421	min. 0,28 - max. 0,56	ASTM D 5059-21 METODA A
17	Freezing point	°C	<-61,0	max. -56	ASTM D 2386-19
18	Motor Octane Number MON	-	102,2	min. 99,6	ASTM D2700-24C PROCEDURA A
19	Performance number	-	133,3	min. 130	ASTM D 909
20	Sulfur	mg/ml	<0.00030	max. 0,05	ASTM D 2622-24A
21	Specific energy	MJ/kg	43,574	min. 43,5	ASTM D 3338/D3338M-20A
22	Water Reaction - volume change	ml	0	max. 2	ASTM D 1064-24
23	Corrosion copper strip 2h at 100 C	klasa	1	max. 1	ASTM D 130-19
24	Existent gum	mg/100ml	<1	max. 3	ASTM D 381-25
25	Potential gum	mg/100ml	<1	max. 6	ASTM D 873-22
26	Precipitate	mg/100ml	<1	max. 2	ASTM D 873-22
27	Colour in Lovibond - B	-	2,9	min. 1,7 - max. 3,5	IP 559/09 (2019)
28	Colour in Lovibond - N	-	0,8		IP 559/09 (2019)
29	Colour in Lovibond - R	-	0		IP 559/09 (2019)
30	Colour in Lovibond - Y	-	0,7		IP 559/09 (2019)

decision QC:

antiknock compound (ethyl fluid TEL - B) Max 0,56 gPb/l of gasoline - see report of analyses, colouring additive (1,4-dialkyl-aminonaphthalene) max 2,7 mg/l of gasoline - 1,30 mg/l antioxidant additive (2,6-di-tert-butyl-4-methyl-phenol) max 12 mg/l - 10 mg/l; anti-electrostatic additive (STADIS 450) Max 3,0 mg/l of gasoline - 0,2 mg/l

Intertek Nederlands BV, Leerlooierstraat 135, 3194 AB Hoogvliet ROTTERDAM z dnia 24-07-2026.

Performance number rewritten from the laboratory opinion No. RDAM26-011536.202607271115

Aviation gasoline AVGAS 100LL meets WT 09/OBR PR/PD/48

and ASTM D 910-26, DEF-STAN 91-090 issue 7

Signature

Date: 02-09-2026

QC: 8, Maria Ptaszyńska