

Issued in accordance with Article 1.8.7.2. of the European Agreement Concerning the International Carriage of Dangerous Goods by Road / the Regulations Concerning the International Carriage of Dangerous Goods by Rail (ADR/RID), the Directive 2010/35/EU (TPED) and Annex 1 of the Directive 2008/68/EC

We hereby certify that the type of cylinders conforms with the Directive 2010/35/EU (TPED) and the Directive 2008/68/EC.

HOLDER OF THE CERTIFICATE:

NOVOGAS

Registration No. 500235715

DESCRIPTION OF PRODUCT RANGE:

NAME	Liquefied propane gas cylinders	
MANUFACTURER	NOVOGAS, ОАО «НЗГА» (Открытое акционерное общество "Новогрудский завод газовой аппаратуры")	
LOCATION OF THE MANUFACTURER	Mickevicha 109, 231400, Novogrudok, Belarus (ул. Мицкевича 109, 231400, г. Новогрудок, Республика Беларусь)	
TYPE IDENTIFICATION NO.	ГЛИУ.461.00.00	ГЛИУ.454.00.00
MAX. ALLOWABLE PRESSURE PS (BAR)	16	
TEST PRESSURE (BAR)	30	
NOMINAL VOLUME(l)	27	46
MAX. ALLOWABLE TEMPERATURE TS (°C)	-40 ÷ +65	
MENTIONED FOR FLUIDS	Liquefied petrol gas (LPG)	
UN No of FLUIDS	1011; 1075; 1965; 1969; 1978	
CLASSIFICATION OF FLUID	2F	
PERIOD BETWEEN PERIODIC INSPECTIONS (YEARS)	10	
MAXIMUM FILLING RATIO	According to the ADR/RID packing instruction P200	

CERTIFICATE ISSUED: 22.08.2016.
CERTIFICATE EXPIRES: 22.08.2026

Gints Filipsons
Inspection Manager

This Certificate consists of this page and an Annex on 2 (two) pages.

I. List of standards and other regulations used for the assessment:

1. The European Agreement Concerning the International Carriage of Dangerous Goods by Road 2015 (ADR);
2. Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transportation of dangerous goods;
3. Directive 2010/35/EU of the European Parliament and of the Council of 16 June 2010, on transportable pressure equipment and repealing Council Directives 76/767/EEC, 84/525/EEC, 84/526/EEC, 84/527/EEC and 1999/36/EC (TPED directive (2010/35/EU));
4. EN 1442:2006+A1:2008 LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction;
5. For all the type tests the most recent version of standards mentioned in EN 1442 were applied.

II. Performed type examination tests and results

Sample cylinders for the type testing from the first batch of cylinders were taken by Inspecta Latvia according to EN1442.

	Result	
	27 liters	46 liters
Batch size	50	50
Number of cylinders for the tests	A00008; A00023; A00036; A00041; A00045; A00059; A00064	F00011;F00013;F00016; F00017; F00018; F00021;F00028; F00029; F00045

Test	Article in EN1442	Result	
		27 liters	46 liters
Mechanical - Tensile	7.4	Positive	Positive
Mechanical - Bend	7.5	Positive	Positive
Burst	7.6	Positive	Positive
Pressure	7.7	Positive	Positive
Radiographic	7.8	Positive	Positive
Macro	7.9	Not performed	Not performed
Visual	7.10	Positive	Positive
Fatigue	7.11	Positive	Positive

III. Type examination reports

All tests were performed by an accredited laboratory OAO "Новогрудский завод газовой аппаратуры" under supervision of Inspecta Latvia.

Test	No and date of report	
	27 liters	46 liters
Visual Test	VT/001A 05.07.2016; VT/002A 05.07.2016	VT-IZ/001F 05.07.2016; VT-IZ/002F 05.07.2016
Radiographic Test	RT/001A 05.07.2016; RT/002A 05.07.2016	RT/001F 05.07.2016; RT/002F 05.07.2016
Mechanical - Tensile	MR/001A 07.07.2016; MR/002A 07.07.2016	MR/001F 07.07.2016; MR/002F 07.07.2016; MR/003F 07.07.2016
Mechanical - Bend	ZG/001A 07.07.2016; ZG/002A 07.07.2016	ZG/001F 07.07.2016; ZG/002F 07.07.2016; ZG/003F 07.07.2016
Burst	PR/001A 05.07.2016; PR/002A 05.07.2016	PR/001F 05.07.2016; PR/002F 05.07.2016; PR/003F 05.07.2016; PR/004F 05.07.2016
Macro	-	-
Fatigue	Y/001A 07.07.2016; Y/002A 21.07.2016; Y/003A 26.07.2016	Y/001F 11.07.2016; Y/002F 14.07.2016; Y/003F 18.07.2016;

This annex consists of 2 (two) pages and is an integral part of the certificate.

4. List of the relevant parts of the technical documentation:

Documenttype	Identification and version of the document	
	ГЛИУ.461.00.00 (27I)	ГЛИУ.454.00.00 (46I)
Drawings	ГЛИУ.461.00.00 СБ 01.06.2016; ГЛИУ.461.00.01 17.05.2016; ГЛИУ.461.00.02 17.05.2016; ГЛИУ.461.00.03 17.05.2016; НЗ 206.01.05 06.04.2013; НЗ 74.02.02 21.02.2011; НЗ 22.10.00.04 27.03.2013	ГЛИУ.454.00.00 СБ 11.05.2016; ГЛИУ.454.00.01 13.05.2016 НЗ 51.02.07 08.10.2014; НЗ 51.01.08 08.10.2014; НЗ 90.01.07-01 04.03.2010; 2101-4434.000.004-02 13.08.2010; НЗ 22.10.00.04 27.03.2013 ГЛИУ.454.00.05 18.05.2016 НЗ 74.02.02 21.02.2011 НЗ 206.01.04-01 17.05.2016
Description	ГЛИУ.461.00.00ТО 17.05.2016	ГЛИУ.454.00.00 ТО 17.05.2016
Strength calculations	ГЛИУ.461.00.00 PP 01.06.2016	ГЛИУ.454.00.00 PP 11.05.2016
Welding procedures and approvals	WPS-01/14; WPQR-01/14; 09.02.2015 WPS-02/14; WPQR-02/14; 09.02.2015 WPS-03/14; WPQR-03/14; 09.02.2015 WPS-04/14; WPQR-04/14; 09.02.2015 WPS-06/14; WPQR-06/14; 09.02.2015 WPS-07/14; WPQR-07/14; 09.02.2015 WPS-08/14; WPQR-08/14; 09.02.2015 WPS-03/13; WPQR-03/13; 17.04.2013 WPS-04/13; WPQR-04/13; 17.04.2013	
Other information	List of standards used in the designing and manufacturing of cylinders 27I, 46I, 31.05.2016; Information about the design of cylinders, intended use and accessories used; Description of the heat treatment procedure; A copy of the Accreditation Certificate of the laboratory BY/112 2.0628 20.09.1997 issued on 27.11.2015	


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