

"ELAD" LLC



## Technical Certificate for BERGIN Industrial Oil Resistant Fuel Hoses

Present hoses are manufactured according to Russian GOST 10362-76.

**Usage:** Used for transfer of different sort of fuel – diesel, oils, acids (up to 20%) and alkalis.

**Ingredients:** inner layer material - NBR, outer layer material - NBR+CR.

**Features:** NBR - Nitrile-Butadiene Rubber makes hose stable against fuels and oils.

CR - Chloroprene Rubber gives increased ozone resistance to the hose.

**Burst pressure:** 3P, where P – operating pressure.

### Options:

Product code	Inner diameter, mm	Outer diameter, mm	Operating pressure, MPa	Burst pressure, MPa	Operating ambient temperature range, °C
BO0316	3,2	10,5	1,6	4,8	-60 ... +100
BO0416	4	11,5	1,6	4,8	-60 ... +100
BO0616	6	14	1,6	4,8	-60 ... +100
BO0806	8	15	0,63	1,89	-60 ... +100
BO0816	8	16,5	1,6	4,8	-60 ... +100

Product code	Inner diameter, mm	Outer diameter, mm	Operating pressure, MPa	Burst pressure, MPa	Operating ambient temperature range, °C
BO1206	12	20	0,63	1,89	-60 ... +100
BO1406	14	22	0,63	1,89	-60 ... +100
BO1416	14	23	1,6	4,8	-60 ... +100
BO1606	16	24	0,63	1,89	-60 ... +100
BO1616	16	25	1,6	4,8	-60 ... +100
BO1816	18	27	1,6	4,8	-60 ... +100
BO2006	20	28,5	0,63	1,89	-60 ... +100
BO2016	20	29	1,6	4,8	-60 ... +100
BO2506	25	34	0,63	1,89	-60 ... +100
BO2506	25	35	1,6	4,8	-60 ... +100
BO3206	32	41,5	0,63	1,89	-60 ... +100

#### Operating fluids:

Operating fluid	Operating fluid temperature, °C
Avgas according to Russian GOST 1012 and petrol according to Russian GOST 2084	-50 ... +70
Jet fuel according to Russian GOST 10227 and diesel fuels according to Russian GOST 305	-50 ... +70
Petroleum based oils	Up to +100
Liquid lubricants	-50 ... +100
Grease fat lubricant according to Russian GOST 1033	
Air	-50 ... +60
Rare gases	
Water	Up to +100 and +120 (for the short period of time)
Low-freezing coolant according to Russian GOST 28084	-60 ... +120
Weak solutions of inorganic acids, alkalis (up to 20%) except nitric acid	-50 ... +50

#### Technical features:

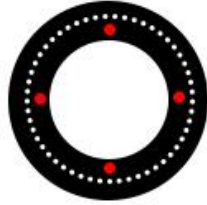
Usually in this type of hoses thread-wound reinforcement is only used. Bergin hoses have a unique patented design: four additional longitudinal crosswise-wound threads are used in addition to thread winding.

With this elaboration Bergin hoses provide better constancy of geometrical parameters. Also, during the vulcanization process additional threads allow to control the lengthwise shrinkage ratio, and the hose is less stretched during installation.

#### Schematic structure of the hose:



Oil-Air, BERGIN, GOST 10362-76



#### Hose exterior:



#### Storage and care conditions:

##### General operating conditions:

It is necessary to supply fluid to the hose under pressure that is not higher than operating pressure. Working pressure change should be made gradually so that the hoses do not undergo to the shock pressure. Hoses must not be kinked or driven over. Hoses must not be dragged over sharp or abrasive surfaces. Large hoses should be handled with use of reels and drums if possible. It is necessary to check the hose for tears regularly. All hoses should be checked regularly in terms of operational safety. If the hose is damaged it must be replaced for safety reasons.

##### Storage conditions:

Hoses should be stored in cool, dry and ventilated place. Storage in places unprotected from weather conditions is prohibited. Storage in heated places should be made at a distance of at least 1 meter away from the heat source. Avoid storage in humid areas if possible. Do not expose to the direct sunlight.

Important note:

The manufacturer does not guarantee the safety of use of these hoses if they are used under operating conditions other than specified in this certificate or storage and maintenance conditions were violated.

Date: 20.03.2017

Dimitrovgrad, Russia



"ELAD" LLC Chief Technologist:

/ I.A. Bitukova /



**VOLUNTARY CERTIFICATION SYSTEM  
«REGISTER OF CERTIFIED SYSTEMS»  
№ POCC RU.31010.04ЖЗМ0**

**CERTIFICATION AUTHORITY OF MANAGEMENT SYSTEMS  
«DKS-ULYANOVSK» SIMBIRSK CERTIFICATION CENTER LLC  
38, Mayakovskogo str., Ulyanovsk, 432030, Russian Federation  
POCC RU.31010.04.ЖЗМ0/OC.09.2015**

**CERTIFICATE OF CONFORMITY**

Issue 1. QMS certified since April 2017

is given to **Limited Liability Company «Elad»  
(LLC «Elad»)**

179-V, Gogol str., Dimitrovgrad,  
Ulyanovsk region, 433504, Russian Federation

**THIS CERTIFICATE CERTIFIES THAT:**

Quality Management System as applied to production and supply  
of reinforced and non-reinforced rubber technical products  
(excluding par.7.3 in the part of product design)

**COMPLIES WITH THE REQUIREMENTS OF**

**GOST ISO 9001-2011 (ISO 9001:2008)**

**Registration № POCC RU.31010.04.ЖЗМ0/OC.09-02310-2017**

**Date of registration April 20, 2017**

**It is valid until April 20, 2020**

**Deputy Chief of the certification  
authority of management systems**



**U. V. Maslova**

**Commission Chairman**

**G. S. Gasparyan**

Clarification regarding certification scope and applicability of management system requirements can be enquired of the above-mentioned organization. The certificate is valid since it was registered on site [www.dks-rus.ru](http://www.dks-rus.ru) and if it is maintained by performance of surveillance audits.