

"ELAD" LLC



Technical Certificate for BERGIN Multifuel Industrial Hoses with External Braiding

Manufactured according to Russian conditions "TU 38.105260-84"

Usage: as a hose with fixation in all fuel systems, including injection systems.

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

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

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

Thread - polyester non-twisted thread.

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

BERGIN MULTIFUEL HOSE

Options:

Product code	Inner diameter, mm	Outer diameter, mm	Operating pressure, MPa	Burst pressure, MPa	Operating ambient temperature range, °C
BMF03016	3	7	1,6	4,8	-60...+100
BMF03216	3,2	7	1,6	4,8	-60...+100
BMF04016	4	9	1,6	4,8	-60...+100
BMF08016	8	13	1,6	4,8	-60...+100
BMF10016	10	15	1,6	4,8	-60...+100

Рабочие жидкости:

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:

Due to the use of a non-twisted thread in these hoses, a reduced outside diameter of the hose (compared to other hose manufacturers) is achieved while maintaining its characteristics.

Also, these hoses have a higher working pressure. Usually hoses of this type have an operating pressure of 0.75 MPa.

Schematic structure of the hose:

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. Bityukova /



**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 and if it is maintained by performance of surveillance audits.