

LUKOIL PIPEFLEX 111 LT

Thread compound

DESCRIPTION

LUKOIL® PIPEFLEX 111 LT is intended to seal all types of threads of well casing, oil-well tubing, drill pipes and pipelines of any diameter when operating at pressures up to 70 MPa. It is efficient at temperature from –50 °C to + 200 °C. Excellent for high-load tripping operations, prevents the occurrence of tight unbolting.

LUKOIL® PIPEFLEX 111 LT based on high-quality mineral base oil blend, thickened with lithium soap fortified with package of high performance additives and solid lubricants: lead, zinc, copper and graphite.

Due to its composition, LUKOIL® PIPEFLEX 111 LT has excellent anti-wear and extreme pressure properties, ensures reliable pipe sealing and protects thread connections from H₂S and CO₂, meets API RP 5A3/ ISO 13678 requirements.



ADVANTAGES:

- Provides high extreme pressure, anti-wear and anti-corrosion protection
- Protects thread connections during storage and operation
- Provides sealing
- Increases thread life
- Protects from H₂S и CO₂

APPLICATION IN UNITS:

- Thread connections

COMPOSITION:

- High-purified mineral oil blend
- Lithium soap
- Additives package
- Solid lubricants: lead, zinc, copper, graphite

APPLICATION EXAMPLES:

- Well casing
- Oil-well tubing
- Drill pipes

LUKOIL PIPEFLEX 111 LT. Edition 12/21 replaces edition 07/19

This product is manufactured according to **STO 65561488-066-2016**

LUKOIL® PIPEFLEX 111 LT TYPICAL PROPERTIES

Standard	Property	Unit	Value
	Color		Dark metallic
	Service temperature range	°C	-50... +200
DIN 51818	NLGI grade		1
ASTM D217	Worked penetration	mm/10	310-340
ISO 13678	Worked penetration @ -20 °C, not less	mm/10	220
ISO 2176	Dropping point, not less	°C	138
ISO 13678	Friction factor		0.9
ISO 13678	Evaporation (24 h, @ 100 °C), not more	%	3.75
ISO 13678	Oil separation (24 h, @ 100 °C), not more	%	10
ISO 13678	Brush application @ -20 °C		Possible
ISO 13678	Spatula application @ -40 °C		Possible
ISO 13678	Adhesion after 12 h of exposure @ 66 °C, not more	%	1
ASTM D4048	Copper corrosion		1a
GOST 9.080	Corrosive effect on metals: steel St45		Pass
ISO 13678	Water leaching, weight loss for 2 h @ 66 °C, not more	%	5
ISO 13678	Preservation properties after 500 h of exposure @ 38 °C, surface corrosion area, not more	%	1.0
GOST 9.509	Protective ability, presence of corrosion centers after 4 cycles		Absence

HOW TO USE

This compound can be applied manually with a brush or a spatula, mix before use.

USABLE LIFE AND STORAGE

The guaranteed shelf life is 60 months from the date of manufacture in the manufacturer's container, subject to the conditions of transportation and storage.

HANDLING PRECAUTIONS

In accordance with GOST 12.1.007, this product belongs to the 3rd hazard class, i.e. moderately hazardous materials. During storage, transportation and application of this product, the safety rules for handling mineral lubricating materials and the environment protection regulations must be observed.

For further information on how to use LUKOIL® products, please refer to the product MSDS.

TECHNICAL SUPPORT

For correct selection of lubricating materials to meet your needs and to get more detailed information on the products, as well as if you have any other questions, we recommend you to contact our technical support service specialists by e-mail: grease.support@lukoil.com

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Product technical properties are typical and can vary in strong limits.

Due to research and development of science and technology properties of product indicated in this Technical Data Sheet can be changed without notification.