

LUKOIL Ts-38, Ts-52

Cylinder oils

DESCRIPTION

Cylinder oils LUKOIL® Ts-38 and LUKOIL Ts-52 are manufactured from high-quality low-sulfur residual mineral oil. The oils can be thickened with polyisobutylene.

Cylinder oils are intended for lubrication of hot parts of steam engines (locomobiles, marine and stationary machines, steam hammers, headframes, etc.) operating with superheated steam and mechanisms operating with high loads and low speeds of volumetric gears.

Cylinder oil LUKOIL® Ts-38 is intended for use in reciprocating steam engines for various purposes, operating with steam overheated to + 350 °C.

Cylinder oil LUKOIL Ts-52 is intended for use in piston steam engines for various purposes operating with steam overheated to +400 °C.

<u>ADVANTAGES:</u> <ul style="list-style-type: none">• High thermo-oxidative stability• Good viscosity-temperature properties• Prevents the formation of coke oil deposits in the discharge lines of the compressors	<u>COMPOSITION:</u> <ul style="list-style-type: none">• High-quality low-sulfur residual mineral oil
<u>APPLICATION IN UNITS:</u> <ul style="list-style-type: none">• Hot parts of steam engines	<u>APPLICATION EXAMPLES:</u> <ul style="list-style-type: none">• Steam engines (locomobiles, marine and stationary machines, steam hammers, headframes, etc.)

LUKOIL® Ts-38, Ts-52. Edition 12/21, replaces all previously published edition

These products are manufactured according to STO 65561488-020-2013

LUKOIL® Ts-38, Ts-52 TYPICAL PROPERTIES

Standard	Property	Unit	Value	
			LUKOIL Ts-38	LUKOIL Ts-52
GOST 3900	Density @ 20 °C, max	kg/m ³	930	
GOST 33	Kinematic viscosity @ 100 °C	cSt	32–50	50–70
GOST 25371	Viscosity index, min		100	105
GOST 19932	Carbon residue, max	%	0.8	
GOST 5985	Acid number, max	mg KOH/g	0.2	
GOST 1461	Ash content, max	%	0.01	
GOST 6307	Content of water-soluble acids and alkalis		Absence	
GOST 6370	Content of mechanical impurities		Absence	
GOST 2477	Water content		Absence	
GOST 1437	Sulfur content, max	%	0.4	
GOST 4333	Flash point in open cup, min	°C	270	
GOST 20287 B	Pour point, max			
	from 01.04 to 30.09	°C	–10	
	from 30.09 to 01.04	°C	–15	
GOST 2917	Corrosion effect on metals: steel 40, 45 and 50		Pass	

HOW TO USE

It is used in accordance with the manufacturer's using manual.

USABLE LIFE AND STORAGE

The guaranteed shelf life is 36 months from the date of manufacture in the manufacturer's container, subject to the conditions of transportation and storage.

HANDLING PRECAUTIONS

These products don't contain any toxic ingredients. During storage, transportation, and application of this products, 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 the proper 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 technical properties of product indicated in this Technical Data Sheet can be changed without notification.