

# ZhTKZ-65

Brake grease

## **DESCRIPTION**

The ZhTKZ-65 brake grease is produced from mineral oil thickened with lithium soaps of castor oil and stearic acid with addition of an antioxidant additive. It is produced at one of the most modern industrial facilities in Russia, using high-quality raw materials.

ZhTKZ-65 grease is used for lubrication of brake equipment and mechanisms of locomotives, diesel trains, and railway multiple unit.

Temperature range of ZhTKZ-65 grease application is from  $-60\text{ }^{\circ}\text{C}$  to  $+110\text{ }^{\circ}\text{C}$ .



<p><b>ADVANTAGES:</b></p> <ul style="list-style-type: none"> <li>• Good anti-corrosion and protective properties</li> <li>• High antioxidant, colloidal and thermal stability</li> <li>• High adhesion to metal surface allows for shorter relubrication intervals</li> <li>• Wide temperature range of application</li> </ul>	<p><b>COMPOSITION:</b></p> <ul style="list-style-type: none"> <li>• Highly refined mineral oil</li> <li>• Lithium soap</li> <li>• Antioxidant additive</li> </ul>
<p><b>APPLICATION IN UNITS:</b></p> <ul style="list-style-type: none"> <li>• Braking equipment</li> </ul>	<p><b>APPLICATION EXAMPLES:</b></p> <ul style="list-style-type: none"> <li>• Seals, diaphragms, valves and other elements of seals for brake fittings of locomotives, diesel trains, railway multiple unit</li> </ul>

ZhTKZ-65. Edition 12/21, replaces all previously published edition

This product is manufactured according to TU 0254-004-01055954-02

### **ZhTKZ-65 TYPICAL PROPERTIES**

Standard	Property	Unit	Value
	NLGI grade		2–3
	Appearance		Homogeneous ointment from light yellow to brown
GOST 5346 V	Worked penetration @ 25 °C (60 strokes)	mm/10	230–300
GOST 7163	Viscosity @ –50 °C and an average gradient of deformation rate of 10 s <sup>-1</sup> , max.	Pa·s	1500
GOST 7142	Oil separation, max	%	40
GOST 6793	Dropping point, min	°C	120
GOST 2477	Water content, max	%	Trace
GOST 6707	Mass fraction of free alkali in terms of NaOH, max	%	0.3
GOST 9.080	Corrosion effect on metals: brass LC 59-1; steel 40, 50		Pass
GOST 6479	Mechanical impurities content, max	%	Absence

### **HOW TO USE**

This grease can be applied manually with a brush or spatula.

### **USABLE LIFE AND STORAGE**

The guaranteed shelf life is 24 months from the date of manufacture in the manufacturer's container, subject to the conditions of transportation and storage.

### **HANDLING PRECAUTIONS**

This product doesn't contain any toxic ingredients. 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 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](mailto: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.