

# TsNII KZ

## Deicing railway grease

### **DESCRIPTION**

TsNII KZ deicing grease is based on high-quality mineral oil mixtures with lithium soap, deicing components, antioxidant and anticorrosive additives. It is produced at one of the most modern industrial facilities in Russia, using high-quality raw materials.

The TsNII KZ deicing grease is recommended for use to prevent ice deposition on pantographs of electrical rolling stock and overhead wires during the ice period. The grease reduces wear of friction surfaces and extends the service life of machine parts and units. The grease prevents penetration of aggressive liquids, gases and vapors, as well as abrasive particles (dust, dirt, etc.) to the surfaces.

The grease can operate at temperatures ranging from  $-40\text{ }^{\circ}\text{C}$  to  $+40\text{ }^{\circ}\text{C}$ .



<p><b>ADVANTAGES:</b></p> <ul style="list-style-type: none"> <li>• Excellent deicing properties</li> <li>• Reliable protection of lubricated parts against corrosion at high humidity</li> <li>• Reducing wear of friction surfaces, extending the service life of machine parts and mechanisms</li> <li>• Preventing penetration of aggressive liquids, gases and vapors, as well as abrasive particles to friction surfaces</li> </ul>	<p><b>COMPOSITION:</b></p> <ul style="list-style-type: none"> <li>• A mixture of mineral oils</li> <li>• Lithium soap</li> <li>• Deicing components, antioxidant and anticorrosive additives</li> </ul>
<p><b>APPLICATION IN UNITS:</b></p> <ul style="list-style-type: none"> <li>• Pantographs</li> <li>• Wires</li> </ul>	<p><b>APPLICATION EXAMPLES:</b></p> <ul style="list-style-type: none"> <li>• Pantographs of electric rolling stock</li> <li>• Overhead wires</li> </ul>

TsNII KZ. Edition 12/21, replaces all previously published edition

This product is manufactured according to TU 0254-005-01055954-02

### **TsNII KZ TYPICAL PROPERTIES**

Standard	Property	Unit	Value
	Appearance		Light yellow to brown homogeneous smooth ointment
GOST 7163	Viscosity @ 0 °C and an average gradient of deformation rate of 10 s <sup>-1</sup> , max	Pa·s	400
GOST 7143 B	Ultimate strength @ 25 °C, max	Pa	400
GOST 9.080	Corrosive to metals: copper		Pass
GOST 6479	Mechanical impurities content, max	%	0.03
GOST 2477	Water content, max	%	Absence
GOST 6707	Mass fraction of free alkali in terms of NaOH, max	%	0.2

### **HOW TO USE**

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

### **USABLE LIFE AND STORAGE**

The guaranteed shelf life is 18 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.