

# PUMA

## Semi-liquid wheel-to-rail contact grease

### APPROVALS

Russian Railways, OJSC

### PRODUCT DESCRIPTION

**The PUMA semi-liquid wheel-to-rail contact grease** is a semi-liquid special-purpose water-resistant railway grease designed for protecting wheel pair flanges and rails from wear. The application temperature range of the **PUMA** grease is from minus 30 °C to plus 110 °C.

**The PUMA grease** is manufactured from mineral oil thickened with stearic acid lithium soap and contains anticorrosive and antioxidant additives, and molybdenum disulfide. The grease is produced from high-quality raw materials at new and one of the most up-to-date grease production facilities in the CIS.

### APPLICATION

**The PUMA semi-liquid wheel-to-rail contact grease** is recommended for protection of wheel pair flanges and rails from wear. The grease is applied on wheel flanges and the side

edge of the rail using trainborne and trackside lubricators, as well as mobile rail lubricators.

### BENEFITS

- The grease has good adhesive properties enabling it to stay on the vertical wheel-rail mating surface.
- The grease has good anticorrosive properties ensuring lower corrosive wear of the wheel-rail friction pair.
- The grease has good water-resistant properties preventing it from washing off by atmospheric precipitation.
- The grease has a wide operating temperature range (from minus 30 °C to plus 100 °C), which allows it to be used all year round in different climatic zones.
- High tribotechnical characteristics of the grease lead to lower wear of wheel-rail friction pairs and their longer service life.

**The product is manufactured as per TU 32 TsT 2232-97**

### STANDARD CHARACTERISTICS

PROPERTY	PUMA
NLGI consistency	0
Color	Dark grey
Type of soap	Li
Type of base oil	mineral
Structure	Homogeneous paste
Viscosity at minus 30 °C and average gradient of strain rate of 10 s <sup>-1</sup> , Pa·sec, or less	100
Penetration at 25 °C after stirring, 0.1 mm	360–400
Corrosive effect on metals (steel)	resistant
Four-ball tribological properties:	
• Critical load, N	670
• Wear scar diameter, mm	0.7
Water content	Traces

The standard product characteristics are average values and do not constitute the manufacturer's specification. They can be subject to change in accordance with the requirements of INTESMO, LLC. Please contact the technical support team for any question related to the application and replacement of grease products manufactured by INTESMO, LLC.