



DESCRIPTION AND SCOPE OF APPLICATION

Product description

Rosneft Metalway is an oil developed for use in plain slideways and slideway bearings of machine tools, as well as in hydraulic systems. It is produced based on highly refined mineral base oils and a multifunctional additive package that improves extreme pressure, antifoam, anti-shock and solubilizing properties.

Application

Rosneft Metalway oils are designed for use in plain slideways and slideway bearings of machine tools and in hydraulic systems, including special machines of various types, where uniformity of slow movements, accuracy and sensitivity of adjustment movements of tables, supports, sliders, headstocks, stands and other units are required, and also where it is necessary to reduce the level of the friction factor in static and dynamic conditions, as well as for transmissions of the lead screw-nut of machine tools with programmed control of particularly high precision.

APPROVALS AND SPECIFICATIONS

Viscosity grades:

ISO VG: 68, 100, 220

Specifications and approvals:

DIN 51524, Part 2 (HLP), DIN 51517 Part 3 (CLP, CGLP)
 Fives P 47, P-50, Hurco

ADVANTAGES

- High lubricating capacity ensures stability and absence of shocks when moving the working bodies of machine tools even at high loads and low speeds, preserving the high quality of the part finishing and allowing high-precision operations;
- Excellent adhesion to vertical plain slideways;
- Active anti-corrosion and demulsifying components of the oil provide increased protection against corrosion, even in waterlogged conditions, extending the service life of machine tools;
- Resistant to washout and compatible with various types of foreign and domestic cutting lubricants;
- Environmentally friendly, because the oil does not contain zinc and heavy metal salts.

PACKING

20 L, 216.5 L.



Appr

oved by leading
OEMs



Contains a zinc-free
anti-wear additive
package



Excellent adhesion to
vertical surfaces



Suitable for
gearboxes that do
not require special
oils



Anti-shock additive
ensures high
precision and high
quality of the part
finishing



Provides improved
protection against
wear and corrosion

Typical physical and chemical parameters

Parameter	Test method	Rosneft Metalway		
		68	100	220
Kinematic viscosity at 40 °C, mm ² /s	GOST 33	68	100	220
Acid number, mg KOH/g	ASTM D2896	0,17	0,20	0,18
Ash content, %	GOST 1461	0,02	0,02	0,02
Tribological characteristics on a four ball wear test system: load wear index, N (kgf) welding load, N (kgf)	GOST 9490	338,6(34,6) 1382(141)	444,3(45,3) 1470(150)	423,7(43,2) 1646(168)
Open-cup flash point, °C	GOST 4333	211	234	238
Pour point, °C	GOST 20287	-22	-20	-17
Density at 15 °C, kg/m ³	GOST R 51069	876,3	886	892,8