

# LUKOIL INTEGO

High quality circulation lubricants for Morgoil type bearings

## MEETS REQUIREMENTS

**SMS Group SN 180-3** (X-Roll Oil Bearing – Standard Lubricants)

**Danieli** ESS bearings

**EZTM** (Electrostat Heavy Engineering Work)

## PRODUCT DESCRIPTION

**LUKOIL INTEGO** is a family of high quality circulation lubricants for use in combined lubrication systems of rolling mills.

**LUKOIL INTEGO** are produced on mineral base oils and synthetic oils with involvement of high performance additive package, which provides extending drain interval and excellent anticorrosion and demulsifying behavior. Those oils are compatible with all types of white metal alloys, which are used in oil-lubricated bearings.

## APPLICATION

**LUKOIL INTEGO 220, 320, 460** are recommended for use in systems oil-lubricated bearings of bar and sheet rolling mills under different load and speed conditions. Can also be used in gearbox of rolling mills and industrial transmissions. Developed specifically to replace the domestic analogues like **I-PV, ITS, P-38, MS-20, T-30** and ect.

## BENEFITS

- Excellent water separation
- High oxidation stability
- Enhanced antiwear properties
- Improved antifoam properties
- Compatible with all types of white metal alloys

The product name in an order:

Industrial oil LUKOIL INTEGO 220, STO 79345251-033-2009

Industrial oil LUKOIL INTEGO 320, STO 79345251-033-2009

Industrial oil LUKOIL INTEGO 460, STO 79345251-033-2009

## TYPICAL TEST DATA

PROPERTY	Test method	LUKOIL INTEGO		
		220	320	460
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	GOST 33	220.8	316,4	462.7
Viscosity index	GOST 25371	95	93	95
Flash Point, COC, °C	GOST 4333	238	290	259
Pour Point, °C	GOST 20287 B	-12	-18	-9
Cu corrosion	GOST 2917	1b	1b	1b
Water Separability with distilled water [pH 5.4-6.6] at 82°C, oil-water-emulsion (40-37-3)	ASTM D1401	10	10	20
Separation time				

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International".