



## PRODUCT DESCRIPTION AND APPLICATION

### Product Description

**Rosneft Turbogear** – is a premium new generation turbine oil manufactured from high quality base oils. The oil contains a specially selected ashless composition of imported additives that improves antioxidation, anticorrosion and demulsifying properties.

### Application

**Rosneft Turbogear** oils are intended for use in modern steam turbines, in gas pumping units and other similar equipment. It is used as a lubricant for the mechanisms of turbine units (including gears and multipliers), as well as a hydraulic fluid in the control systems of these machines.



Improved protection against wear and corrosion



Improved anti-wear additives



Approvals from leading OEMs

## APPROVALS AND SPECIFICATIONS

### Viscosity grade:

ISO VG: 32, 46

### Approvals and specifications:

DIN 51515-1; DIN 51515-2;  
Siemens TLV 901304, 901305;  
GEK 101941A; Solar Turbines ES  
9-224 Class II, Ansaldo Energia  
(excl. Rosneft Turbogear 32)

## BENEFITS

- High oxidation stability prevents the formation of aggressive acid and deposits in the lubrication system and contamination of the filter elements, thus reducing the risk of unplanned downtime;
- Increased thermal and oxidation stability extends oil's service life, even in local overheated zones, thus increasing the oil drain intervals and reducing the refilling volume;
- Demulsifying properties effectively help separating the water in the circulation system's tanks, thus protecting the equipment from corrosion and premature wear;
- Deaeration and antifoam properties comply with the most up-to-date requirements of turbine manufacturers;
- Excellent antiwear and extreme pressure properties reduce wear and decrease surface damage of gears and bearings, thereby ensuring long-term smooth operation of the turbine units, including in the combined turbine-multiplier/reducer systems.

## PACKAGING

216,5 l.

## Typical Physical and Chemical Properties

Parameter	Test method	Rosneft Turbogear			
		32	46	32 EP	46 EP
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D445	32	46	32	46
Viscosity Index	ASTM D2270	114	114	113	116
Total Acid Number (TAN), mg KOH/g	ASTM D4739	0,041	0,058	0,070	0,076
Oxidation Characteristics, min	ASTM D 943	5950	6150	5450	5450
Oxidation Stability, min	ASTM D2272	890	890	890	898
Flash point, COC °C	ASTM D92	200	204	200	214
Pour Point, °C	ASTM D97	-20	-18	-16	-12
Air release at 50 °C, min	ASTM D3427	2	2	2	2