

## TURBINE OIL

### Turbine oils TP -22, -30, -46

#### GOST 9972-74

#### *Composition*

Selective treatment oil, which contain additive for improvement of antioxidant, anticorrosion and demulsification properties.

#### *Sphere of application*

Turbine oil **TP-22** is used to lubricate high-speed steam turbines, as well as for centrifugal and turbo-compressors in cases when oil viscosity provides with necessary antiwear properties (bearings of supports, subsidiary mechanisms of turbine aggregates and in their adjusting systems as hydraulic fluid).

Turbine oil **TP-30** is used to lubricate water turbine, some turbo- and centrifugal compressors (for lubrication of bearings of auxiliary mechanisms of turbines in its systems of regulations as hydraulic fluid).

**TP-46** is used for marine steam-power unit with high loaded reducer and auxiliary mechanisms, in regulation systems as hydraulic fluid.

#### *Main performance characteristics*

- good oxidation stability;
- do not form a stable emulsion with water;
- protect the surface of steel parts from corrosion;

### *Physical and chemical properties*

Index name	TP-22	TP-30	TP-46	Test methods
<b>In accordance with international classifications oil is correspond to: ISO</b>	<b>32</b>	<b>46</b>	<b>68</b>	
1. Cinematic viscosity, mm <sup>2</sup> /s, no less than: at (+40)°C	28,8-35,2	41,4-50,6	61,2-74,8	GOST 33
2. Viscosity index, no less than	90	95	90	GOST 25371
3. Demulsification number, min, no more than	3,0	3,5	3,0	GOST 12068
4. Mass fraction of mechanical impurities	Absence			GOST 6370
5. Acid number, mg KOH on 1g of oil, no more than	0,05	0,5	0,5	GOST 11362
6. Ash content of the base oil, %, no more than	0,005	0,005	0,005	GOST 1461
7. Flash point (at the open crucible), °C, no less than	186	190	220	GOST 4333
8. Pour point, °C, no more than	-15	-10	-10	GOST 20287
9. Density at +20°C, kg/m <sup>3</sup> , no more than	895	895	895	GOST 3900
10. Oxidation stability, no more than -sediment after oxidation, % (mass fraction) -acid number, mg KOH/g	0,03 0,30	0,03 0,4	0,1 1,5	GOST 18136 cl.4.2
11. Water soluble acids and alkalis	Absence			GOST 6307
12. Color on CNT colorimeter, CNT units, no more than	3,0	3,6	5,5	GOST 20284
13. Mass fraction of water, %, not more than	Absence			GOST 2477
14. Mass fraction of sulfur in base oil, %, not more than	0,3	0,3	0,3	GOST 1437
15. Corrosion influence on metals, group	1			GOST 2917 cl.4.4
16. Flow point, °C, not more than	-6	- 6	- 6	GOST 20287

**Guaranteed shelf life:** 5 years from the date of manufacture.