



# LUBRICANTS™

## POWER TO PERFORM™

# TURBINOL XT

## TURBINE OILS

### SPECIAL FEATURES

TURBINOL XT grades are premium quality lubricating oils designed to provide efficient and trouble-free service in precision industrial machinery having most exacting lubrication requirements. The excellence of TURBINOL XT grades is the combined result of selected stable base oils, efficient refining methods and effective additives.

### APPROVALS

Approved by BHEL, Siemens AG, Germany, for their various turbines.

### APPLICATION AREA

Recommended for lubrication of steam, gas & hydraulic turbines & can be used in hydraulic systems requiring very long life lubricant of outstanding properties. Specifically recommended for lubrication of geared turbines.

### PHYSICO-CHEMICAL PROPERTIES

	Unit	HPCL TURBINOL		
		32	46	68
Kin. Viscosity @ 40°C, cSt	mm <sup>2</sup> /s or cSt	31.26	45.63	65.3
Viscosity Index	-	107	107	114
Flash Point, COC	°C	220	220	228
Pour Point	°C	(-)15	(-)15	(-)15
Neutralization No. (TAN)	mgKOH/g	0.1	0.09	0.09
Rust preventive Characteristics	-	Passes	Passes	Passes
Oxidation Stability, TOST life	hours	>7500	>7500	>7500
Oxidation Stability, TAN after 1000 hrs TOST	mgKOH/g	0.1	0.13	0.28
Oxidation Stability, RPVOT	minutes	1000	1000	1000
Demulsibility @ 54°C 40-37-3	minutes	40-40-0(5)	40-40-0(5)	40-40-0(10)
Foaming Tendency / Stability	Sec I @ 24°C	ml/ml	0/0	0/0
	Sec II @ 93.5°C	ml/ml	0/0	0/0
	Sec III @ 24°C	ml/ml	0/0	0/0
Air release Value @ 50°C time in minutes sulphur Content	Minutes	3.5	3.5	4.7
FZG Load Bearing characteristics (only for turbines with gears), Fail load stage, min, DIN 51354		10 <sup>th</sup>	10 <sup>th</sup>	10 <sup>th</sup>
Cleanliness, NAS 1638 HDPE Barrels		6	6	6

Note : Product can be supplied at Cleanliness levels meeting NAS 6 in HDPE Barrels

### PERFORMANCE BENEFITS

- Excellent oxidation and chemical stability
- Properly balanced combination of oxidation & rust inhibitors and antifoam agents
- Excellent demulsibility and quick release of entrained air gives prolonged service life

For details log on to: [www.hplubricants.in](http://www.hplubricants.in) | Email: [lubes@hpcl.in](mailto:lubes@hpcl.in) | Toll Free: 1800 121 4725 | Phone: +91 22 23030080

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