



## TURBINOL-S SERIES

### SYNTHETIC TURBINE OILS

#### Product Description:

Formulated with hydrocracked synthetic base oils to meet the critical lubrication needs of combined cycle turbines, large heavy-duty industrial gas, steam turbines with and without loaded gearboxes. TURBINOL-S SERIES has exceptional high-temperature thermal stability, outstanding oxidation stability, low sludge and varnish formation. The oils meet or exceed OEM requirements, including those from General Electric, Siemens Westinghouse, Solar, MAG Cincinnati Machine P-38, British Standard 489, DIN 51515 and ASTM D4304. Recommended for use in electric motor bearings, air compressors, gears, hydroelectric turbines, steam turbines, marine turbines, and nonheavy-duty hydraulic systems.

#### Applications:

Circulating oil systems; such as turbines, pumps, compressors and similar equipments.

#### Meets Performance:

DIN 51515 part 1 (L-TD), DIN 51517 part 2 (L-TG); Siemens TLV 9013 04/01; British Standard BS 489; General Electric GEK 32568 A/C; MIL-L-17672 D; CEEB 207001; Brown Boveri HTGD 90117; U.S. Steel 120; Mitsubishi Heavy Industries E00-87182, TLV 9013

Please check your owner's manual for the manufacturer's recommended oil viscosity grade and API classification and approvals.

#### Technical Data:

TURBINOL-S SERIES	Test method			
ISO VG		32	46	68
Density at 15°C gr/cm <sup>3</sup>	ASTM D 1298	0.850	0.850	0.855
Viscosity at 40°C cSt	ASTM D 445	32	46	68
Viscosity at 100°C cSt	ASTM D 445	5.7	7.5	9.7
Viscosity Index	ASTM D 2270	124	130	134
Flash point °C	ASTM D 92	220	220	225
Pour point °C	ASTM D 97	-33	-30	-30
TAN mg KOH/gr	ASTM D 974	0.1	0.1	0.1
Demulsibility mn	ASTM D 1401	20	20	20
Copper corrosion, 3h, 100 C	ASTM D 130	1a	1a	1a

Above values are the typical values of the products and may vary with each batch.