



# PREMIUM R&O TURBINE OILS

Sinclair Premium R&O Turbine Oils are top tier turbine oils that are designed for steam and light/medium and heavy-duty gas turbines whose fluid requirements include the General Electric GEK 32568E and the GEK 107395 specifications. Sinclair Premium R&O Turbine Oils will provide long-service life as well as minimizing acid effects and the formation of sludge and deposits while preventing excess wear due to extreme pressures from shock loads and overloading. They provide exceptional filterability in wet systems as well as excellent thermal stability in high temperature regimes.



## RECOMMENDED APPLICATIONS

Sinclair Premium R&O Turbine Oils are formulated to suit most industrial applications. Sinclair Premium R&O Turbine Oils may be applied by hand or by means of any typical lubrication appliance or oiler, including sight feed and pressure feed types. They may also be used with centralized systems suitable for oils of this viscosity range.

## SELECTION GUIDE

Sinclair Premium R&O Turbine Oils are recommended for use in large turbines and other circulating lubrication systems where exceptionally stable and long-life oils are needed to assure good equipment performance. They are also recommended for electric motor and generator sets, all types of non-EP gear and bearing lubrication, and any applications where highest quality R&O lubricants are specified. Other typical uses include textile and machine tool spindles, twister rings, vacuum pumps, and some air compressors.

## IMPORTANT CHARACTERISTICS

Sinclair Premium R&O Turbine Oils are made from solvent refined, high VI base stocks and additives which are designed to provide these essential properties:

- Excellent Oxidation & Hydrolytic Stability - for longer life.
- Excellent Rust and Corrosion Protection - for longer equipment life.
- Excellent Demulsibility - for better separation of water contamination.
- Excellent Anti-Foam Protection - to provide uniform lubrication by quickly releasing surface air.
- Strong EP/Antiwear Protection

## USER BENEFITS

Finest quality of Sinclair Premium R&O Turbine Oil is more economical in the long run than oils of lesser quality and lower initial cost. The excellent oxidation stability and protective, lubricating qualities of these oils can significantly reduce maintenance costs and downtime.



# PREMIUM R&O TURBINE OILS

## TYPICAL PHYSICAL PROPERTIES

Viscosity Grade	METHOD	TYPICAL RESULTS					
		Premium R&O Turbine ISO 32	Premium R&O Turbine ISO 46	Premium R&O Turbine ISO 68	Premium R&O Turbine ISO 100	Premium R&O Turbine ISO 150	Premium R&O Turbine ISO 220
Gravity, °API	ASTM D287	32.6341	32.6531	30.81	29.9375	28.0805	28.31
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8621	0.862	0.8718	0.8765	0.8867	0.8854
Viscosity @ 40°C cSt	ASTM D445	32.38	46.65	68.92	101.9	153.3	218.7
Viscosity @ 100°C cSt	ASTM D445	5.565	6.96	8.89	11.4	15.51	18.95
Viscosity Index	ASTM D2270	109	106	102	106	103	98
Color	ASTM D1500	0.5	0.5	0.5	0.5	2	3
Phosphorus, wt. %	ASTM D5185	0.003	0.003	0.003	0.003	0.003	0.003
Sulfur, wt. %	ASTM D4951	0.011	0.011	0.011	0.011	0.011	0.011
Nitrogen, wt. %	ASTM D 4629	0.0164	0.0164	0.0164	0.0164	0.0164	0.0164

Description	Pack Size	Part #	Each UPC	Case UPC	Case Dimensions	Case Cube / Pallet Cube	Case Weight / Pallet Weight	Pallet Stack
Premium R&O Turbine ISO 32	55 Gallon	549-003	0 14168-01734 3	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	426.390 / 1705.558	4 Drums
Premium R&O Turbine ISO 46	5 Gallon	550-008	0 14168-01638 4	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	40.444 / 1698.653	42 Eaches (3 layers of 14)
Premium R&O Turbine ISO 46	55 Gallon	550-003	0 14168-01699 5	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	427.443 / 1709.772	4 Drums
Premium R&O Turbine ISO 68	5 Gallon	551-008	0 14168-01639 1	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	40.573 / 1704.075	42 Eaches (3 layers of 14)
Premium R&O Turbine ISO 68	55 Gallon	551-003	0 14168-01700 8	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	429.596 / 1718.384	4 Drums
Premium R&O Turbine ISO 100	5 Gallon	552-008	0 14168-01640 7	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	40.877 / 1716.842	42 Eaches (3 layers of 14)
Premium R&O Turbine ISO 100	55 Gallon	552-003	0 14168-01701 5	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	434.085 / 1736.340	4 Drums
Premium R&O Turbine ISO 150	55 Gallon	553-003	0 14168-01741 1	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	437.675 / 1750.700	4 Drums
Premium R&O Turbine ISO 220	55 Gallon	554-003	0 14168-01703 9	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	434.085 / 1736.340	4 Drums

