



GST Advantage RO

High performance industrial gas and steam turbine oil

Product description

GST Advantage RO is a high performance industrial gas and steam turbine oil, suitable for use in gas and steam turbines where extreme temperatures are experienced and where oils with robust thermal and oxidative stability are required.

GST Advantage RO combines highly refined group II base stocks and an advanced additive package designed to minimise the formation of deposits in reservoirs, high temperature bearings and other hot areas of the turbine.

Customer benefits

- Designed for reliable oxidation and thermal stability, offering long service life at severe temperatures with minimal deposit formation
- Formulated to deliver high performance rust and corrosion protection helping reduce downtime maintenance and costs
- High viscosity index promotes minimal viscosity change when variations in temperature occur
- Foam suppression helps prevent sump overflow or erratic governor operation
- Fast air release offers reduced pump cavitation in systems with high circulation rates and lesser resonance time

Product highlights

- **Designed for long service life at severe temperatures**
- **Formulated for rust and corrosion protection**
- **Offers minimal viscosity change**
- **Promotes foam suppression**
- **Aids fast air release for reduced cavitation**

Selected specification standards include:

Alstom	Ansaldo Energia
ANSI/AGMA	ASTM
British Standard	China National Std GB
DIN	GEC Alstom
General Electric	ISO
JIS	MAN Diesel & Turbo
Siemens	Solar Turbine

Applications

- GST Advantage RO oils are formulated to meet the critical demands of non-g geared gas, steam and hydroelectric turbine bearing lubrication and R&O service in marine reduction gears. They are additionally suitable for industrial severe service requiring an R&O, ISO 32 or 46 circulating oil with extended service capability.

Approvals, performance and recommendations

Approvals

- Siemens TLV901304 and TLV901305
- MAN Diesel & Turbo TQLT2
- Ansaldo Energia TG02-0171-E00000
- Alstom G-HTCT689029: in progress
- GE specification HTGD 90 117: in progress

Performance

- Alstom HTGD 90117
(for non-g geared turbines)
- ANSI/AGMA 9005-F16 R&O
- ASTM D4304 Type 1/type III
(non-g geared turbine)
- British Standard 489:1999
- China National Std GB 11120-2011 L-TSA Type A/B
11120-2011 L-TGA
- DIN 51515/1 and 51515/2
- GEC Alstom NBA P5001A / P50003A
- General Electric GEK-32568j
GEK-28143b
GEK-27070
GEK-46506e
- ISO 8068 L-TGA
6743/5
(L-TSA, L-TGA, L-TGB)
- JIS K-2213 Type II
- Solar Turbine ES 9-224 Class II

Recommendations

GST Advantage RO 32 meets the requirements for the following specifications:

- Siemens Westinghouse PD-55125Z3
- Siemens Industrial 81 21 01
Turbo Machinery

GST Advantage RO 46 meets the requirements for the following specifications:

- Ansaldo Energia TGO2-0171-E0000/C
- GE Oil & Gas ITN52220.02
ITN52220.03
- Siemens Industrial 81 21 02
Turbo Machinery

Product maintenance and handling

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Typical test data			
Test	Test Methods	Results	
Viscosity Grade		32	46
Shelf Life: 60 months from date of filling indicated on the product label			
Density, 15 °C, kg/l	ASTM D1298	0.86	0.86
Viscosity, Kinematic at 40 °C, mm ² /s	ASTM D445	32	46
Viscosity, Kinematic at 100 °C, mm ² /s	ASTM D445	5.5	6.9
Viscosity Index	ASTM D2270	105	105
Pour Point, °C	ASTM D97	-12	-12
Flash Point COC, °C	ASTM D92	220	220

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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