



# GST Advantage RO

## High performance industrial gas and steam turbine oils

### Product description

GST® Advantage RO high performance industrial gas and steam turbine oils are formulated with advanced technology chemistry combined with premium base oils that inhibit varnish formation and help maintain peak performance, reliability and productivity.

GST Advantage RO combines highly refined Group II base stocks and a unique additive package minimising the formation of deposits in reservoirs, high temperature bearings and other hot areas of the turbine that can lead to trips and failures.

### Customer benefits

- Formulated for oxidation and thermal stability over a long service life at severe temperatures with minimal deposit formation
- Offers robust rust and corrosion protection
- High viscosity index helps ensure minimum viscosity change when variations in temperature occur
- Designed for minimum foaming to prevent sump overflow or erratic governor operation
- Fast air release helps minimise pump cavitation in systems with high circulation rates and lesser resonance time
- Promotes rapid water separation and removal
- Hydraulic fluid service for systems requiring an ISO 32 or 46 viscosity and pressures not exceeding 1000 psi
- Air compressor lubricant for systems requiring an ISO 32 or 46 viscosity, R&O oil

### Product highlights

- **Formulated for long service life with minimal deposits**
- **Designed for outstanding rust and corrosion protection**
- **Offers minimal viscosity change**
- **Helps prevent foaming**
- **Promotes fast air release**
- **Aids rapid water removal**

#### Selected specification standards include:

Alstom	Ansaldo Energia
ANSI/AGMA	ASTM
British Standard	China National Std
DIN	Doosan Skoda
GE Oil and Gs	GEC Alstom
General Electric	ISO
JIS	MAG Cincinnati Machine
MAN Energy Power	Mitsubishi Power
Siemens	Siemens Westinghouse
Solar	TGM Kanis Turbinen
Toshiba	

### Applications

GST Advantage RO is 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 suitable for use

#### Approvals

- Ansaldo Energia AD00020487  
TGO2-0171-E00000 (ISO 46)
- Doosan Skoda Tp 0010P
- Siemens TLV901304 and TLV901305
- MAN Energy Solutions 10000494596

#### Performance

- ANSI/AGMA 9005-F16 R&O
- ASTM D4304 Type I/type III
- Alstom NBA P50001A
- British Standard 489:1999
- China National Std GB 11120-2011 L-TSA Type A/B  
11120-2011 L-TGA
- DIN 51515/1:2010-02 TD
- DIN 51515/1:2010-02 TG
- GEC Alstom NBA P50003A (ISO 32)
- General Electric GEK 107395A (ISO 32)  
GEK 120498 (ISO 32)  
GEK 27070 (ISO 32)  
GEK 28143b  
GEK 32568 e-k (ISO 32)  
GEK 46506 d,e (ISO 32)
- GE Oil and Gas ITN52220.02
- GE Oil and Gas ITN52220.03
- ISO 8068  
(AR, B, L-TSA, L-TGA)
- JIS K-2213 Type II
- Mitsubishi Power MS04-MA-CL002 Rev. 4
- MAG Cincinnati Machine P-38 (ISO 32), P-55 (ISO 46)
- Solar ES 9-224 Class II
- Siemens Westinghouse PD-55125Z3 (ISO 32)
- Siemens MAT 81 21 01 (ISO 32)
- Siemens MAT 81 21 02 (ISO 46)
- Toshiba LST-GMH-XUTW2-0005  
Rev. 2 (ISO 32)

- TGM Kanis Turbinen WN000023  
(for not geared turbines)

### 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
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>			
Viscosity, Kinematic at 40 °C, mm <sup>2</sup> /s	ASTM D445	32	46
Viscosity, Kinematic at 100 °C, mm <sup>2</sup> /s	ASTM D445	5.5	6.9
VI	ASTM D2270	105	105
Density at 15°C, kg/l	ASTM D1298	0.86	0.86
Flash Point, °C	ASTM D92	224	236
Pour Point, °C	ASTM D97	-15	-15
Oxidation Resistance, Hours to 2.0 Neutralization Number, Minimum TOST	ASTM D943	10000	10000
TOST	ASTM D943	10000	10000
RPVOT, min	ASTM D2272	1500	1600
Oxidation Stability TOP, m%	IP 280	0.08	0.08
Air release at 50°C, min	ASTM D3427	1.4	2.1
FZG, failure load stage	ASTM D5182	6	7

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).

**Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.**

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see [www.texacolubricants.com](http://www.texacolubricants.com).

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