



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 which helps to minimise 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

- Low varnish potential ensures varnish formation is minimized, extending oil life and protecting equipment.
- Formulated for oxidation and thermal stability over a long service life at severe temperatures with minimal deposit formation.
- Offers robust rust and corrosion protection.
- 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**
- **Contributes to outstanding rust and corrosion protection**
- **Offers minimal viscosity change**
- **Helps prevent foaming**
- **Promotes fast air release**
- **Aids rapid water removal**

Selected specification standards include:

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

Approvals, performance and suitable for use

	GST ADVANTAGE RO 32	GST ADVANTAGE RO 46
Ansaldo Energia AD00020487 (previously Ansaldo Energia G-HTCT689029)	A	A
Ansaldo Energia TGO2-0171-E00000/C, AE64.3A		A
GE HTGD 90117 V0001 AC	A	Approval Pending
Siemens TLV 9013 04 / 05	A	A
MAN Energy Solutions 10000494596	A	A
TGM Kanis WN000023 Rev. 15	A	A
ASTM 4304 - type I / type III	M	M
ANSI/AGMA 90005-E02-R&O	M	M
BS-489: 1999	M	M
China National std GB 11120-2011 L-TSA Type A / Type B	M	M
China National std GB 11120-2011 L-TGA	M	M
DIN 51515 Pt. 1 2010-02, TD32, 46, 68,100	M	M
DIN 51515 Pt. 2, 2010-02, TG32&46	M	M
GEC Alstom NBA P50001A / P50003A	M	M
GEK 107395A / 120498 / 27070 / 32568e-Q / 46506 d, g	M	
GEK 28143B	M	M
GE Oil and Gas, ITN52220.02 Table 1 Section 1, 2, 3	M	M
GE Oil and Gas, ITN52220.03 Par 16, Table 1 Section 1, 2, 4	M	M
ISO 8068 AR / B / L-TSA / L-TGA	M	M
JIS K2213 type 2	M	M
MHPS MS04-MA-CL002 Rev. 4	M	M
Siemens MAT 812101	M	
Siemens MAT 812102		M
Siemens Westinghouse PD-55125Z3	M	
Solar ES-9-224 Class II W	M	M
Toshiba LST-GMH-XUTW2-0005 Rev. 2	M	
Skoda Power TP0010P	M	M
Cincinnati Machine (MAG) P-38	M	
Cincinnati Machine (MAG) P-55		M

A: Approved

M: Meets or exceeds requirements

Applications

GST Advantage RO is formulated to meet the critical demands of non-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.

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.

Avoid any spillage of used and unused product to the environment.

Product residue and package/container should be disposed of in dedicated collection points.

Typical test data			
Test	Test Methods	Results	
Viscosity Grade		32	46
Shelf Life: 60 months from date of filling indicated on the product label			
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
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
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.

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