



# GST 2190 EP

## High performance marine gear turbine set circulating oil

### Product description

GST® 2190 EP is a high-performance circulating oil formulated for marine gear turbine set applications.

GST 2190 EP is designed to provide mild extreme pressure (EP) protection as well as resistance to rust, oxidation, corrosion and foaming even in the high temperature conditions found in turbine bearing and gear lubrication, resulting in good lubricant and equipment life.

### Customer benefits

- Formulated with selected base stocks and additives to help deliver long lubricant service life
- Designed with extreme pressure characteristics to provide high film strength to help protect gears and bearings in heavy-duty service
- High viscosity index helps promote minimal viscosity change across wide operating temperature ranges for enhanced lubricant film strength

### Applications

- GST 2190 EP is recommended for use in marine turbine reduction gears, where heavy tooth loading, and shock loads are encountered.
- The extreme pressure properties enable GST 2190 EP to meet the requirements of MIL-PRF-17331L and MIL-PRF-17331K(SH) for US Navy vessels and submarines.

### Product highlights

- **Helps deliver long lubricant service life**
- **EP characteristics offer heavy duty gear and bearing protection**
- **Stay-in-grade characteristics across wide temperature ranges**

#### Selected specification standards include:

US Military

## Approvals, performance and recommendations

### Performance

- US Military MIL-PRF-17331L  
MIL-PRF-17331K(SH)

\* Only product formulated at the US plant is approved by the US Military

## Product maintenance and handling

Do not filter through Fuller's Earth-type filtration systems since this would deplete the additive package.

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
<b>Shelf Life: 24 months from date of filling indicated on the product label.</b>		
Viscosity Kinematic, 40°C, mm <sup>2</sup> /s	ASTM D445	79.8
Viscosity Kinematic, 100°C, mm <sup>2</sup> /s	ASTM D445	10.3
Viscosity Index	ASTM D2270	111
Density, 15°C, kg/l	ASTM D4052	0.8691
API Gravity	ASTM D287	32.3
Saybolt Viscosity at 100°F, SUS	ASTM D88	370
Saybolt Viscosity at 210°F, SUS	ASTM D 88	60.2
Flash point, COC, °C	ASTM D92	246
Pour Point, °C	ASTM D5950	-12
Colour	ASTM D1500	0.5
Conradson Carbon residue, wt%	ASTM D189	<0.1
Sulphated Ash, wt%	ASTM D874	<0.001
TAN, mgKOH/g	ASTM D974	0.16

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).

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A Chevron company product