



## Gulf Senate

High quality bearing and worm gear lubricant

### Product Description

Gulf Senate oils are high quality, high viscosity oils containing fatty compounds intended for lubrication of heavy duty industrial bearings, low speed enclosed gears, worm gears and steam cylinders working under high temperature-high pressure conditions. It is formulated from high quality base stocks and compounded with fatty material to provide effective lubrication under wet conditions encountered in steam cylinders and excellent wear protection in bearings and worm gears. It is available in three ISO Viscosity grades viz. 460, 680 and 1000.

### Features & Benefits

- Excellent film strength to provide wear protection
- Excellent lubrication of steam cylinders
- Yellow metal protection
- Protection from steam condensate

### Applications

- Lubrication of steam cylinders in low (ISO VG 460) and high (ISO VG 680 and 1000) pressure saturated steam systems and moderate superheat systems
- Heavy duty industrial bearings with bath or pressure circulation systems
- Enclosed gears operating under low speed and moderate load conditions
- Worm gears

### Specifications, Approvals & Typical Properties

| ISO Viscosity Grade                |             | 460          | 680          | 1000          |
|------------------------------------|-------------|--------------|--------------|---------------|
| Meets the following Specifications |             |              |              |               |
| Cincinnati Lamb P -39              |             | X            | X            | X             |
| AGMA 9005 - D94                    |             | 7 compounded | 8 compounded | 8A compounded |
| Typical Properties                 |             |              |              |               |
| Test Parameters                    | ASTM Method |              |              |               |
| Viscosity @ 40 °C, cSt             | D 445       | 464.5        | 687.3        | 993.2         |
| Viscosity Index                    | D 2270      | 99           | 97           | 93            |
| Flash Point, °C                    | D 92        | 266          | 270          | 282           |
| Pour Point, °C                     | D 97        | -6           | -3           | -3            |
| Density @ 15°C, Kg/l               | D 1298      | 0.915        | 0.918        | 0.921         |

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Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

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