



# Delo® Gear ESI®

Extreme Pressure, Extended Drain Automotive Gear Oil

Product Data Sheet

## Customer benefits

### Minimizes fleet maintenance costs

Unique borate additive system significantly reduces friction, resulting in cooler operating temperatures, reduced wear and longer life of bearings and seals.

### Minimizes fleet operating costs

Outstanding thermal and oxidation stability extends oil drain capability to more than twice the length of conventional gear oils, even under extreme service conditions. Special low friction properties contribute to reduced fuel consumption.

### Extends equipment life

Patented borate EP technology creates an anti-wear film 3 to 5 times thicker than conventional EP additives, providing exceptional protection and longer gear life.

### Wide temperature range application

Excellent low temperature flow properties and high temperature stability provide gear and bearing protection under a wide range of operating conditions.

## Applications

Delo® Gear ESI® is recommended for:

- Automotive differentials operating in severe service conditions. Particularly recommended for heavy-duty road transport axles exposed to extreme loads and temperatures
- Heavy-duty non-synchronized transmissions where the manufacturer recommends the use of API GL-5 or MT-1 gear lubricants
- Extended drain gear oil applications in on-road and off-road heavy-duty equipment
- Industrial gear sets and bearings where automotive EP type gear lubricants of this viscosity are recommended

## Product features:

- Delo® Gear ESI® is a premium performance, multipurpose automotive EP gear lubricant.
- Delo® Gear ESI® is suitable for some industrial applications.
- Delo® Gear ESI® is formulated with ISOSYN® Technology, a combination of special base oils and unique EP additive system incorporating inorganic borate technology, to provide oil life and wear protection far exceeding conventional gear oils under extreme service conditions.



## Typical key properties

| DELO® GEAR ESI®            |        |         |
|----------------------------|--------|---------|
| SAE Grade                  | 80W-90 | 85W-140 |
| Product Code               | 510226 | 510227  |
| Pour Point, °C             | -33    | -15     |
| Viscosity                  |        |         |
| mm <sup>2</sup> /s @ 40°C  | 140    | 341     |
| mm <sup>2</sup> /s @ 100°C | 14.2   | 25.0    |
| Viscosity Index            | 99     | 95      |
| Timken OK Load, kg         | 29.5   | 29.5    |

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## ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit: [www.CaltexDelo.com](http://www.CaltexDelo.com).

## Performance standards

- API GL-5 (self-certified)
- API MT-1 (self-certified)
- SAE J2360 (approved and listed)
- Meritor O-76Q, O-76R Extended Drain (approved and listed)
- Mack GO-J Plus Extended Drain (SAE 80W-90 approved and listed)
- Mack GO-J (SAE 80W-90 approved and listed)



## Delo® Gear ESI®

### Service considerations

Excessive in-service water contamination of Delo Gear ESI should be avoided.

While it will continue to provide excellent wear protection under such conditions, shortened seal life may result. Water contamination may be mitigated through operating or mechanical changes, for example the fitting of remote breather outlets to automotive rear axles. However, if excessive water contamination cannot be avoided, another gear lubricant may provide a more effective solution and it is recommended that you consult your local Chevron representative.

In industrial applications, it is suited to both splash and circulation application methods, but not to oil mist systems.

As for all Chevron gear oils based upon inorganic borate technology, the recommended maximum storage life of Delo Gear ESI is 2 years from the date of manufacture. For best results, where containers have been stored for periods greater than 12 months, contents should be agitated (by stirring, rolling etc.) before use.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:  
**Chevron Lubricants**  
- Asia Pacific