



## Industrial Gear Oil 680

Product Code: 77110

Mineral Industrial Gear Oil

**Industrial Gear Oil 680** is a high performance extreme pressure gear oils developed for lubrication of heavy duty industrial gears working under severe operating conditions.

**Industrial Gear Oil 680** is based on high quality mineral base oil in combination with an unique additive package to ensure the following properties:

- Excellent load carrying capability protects gears against scuffing and wear and offers long equipment life and reduced maintenance costs.
- High thermo-oxidative stability helps resist deposit formation, provides enhanced system cleanliness and enables longer service intervals.
- Provides effective rust and corrosion protection to all gearbox components.
- Excellent demulsibility property enables trouble-free operation in conditions encountering water/ moisture.

**Industrial Gear Oil 680** exceeds the following performance criteria:

DIN 51517-3 CLP

David Brown S1.53.101

AIST 224 (US Steel 224)

AGMA 9005-F16

AGMA 9005 E-02

ISO 12925-1 CKD

JIS K 2219:2006 class 2

### Typical Analysis

| Properties            | Unit               | Method      | Typical Value |
|-----------------------|--------------------|-------------|---------------|
| ISO VG Grade          |                    | ISO 3448    | 680           |
| Density @15°C         | kg/m <sup>3</sup>  | ASTM D4052  | 901           |
| Kin. Viscosity @40°C  | mm <sup>2</sup> /s | ASTM D7042  | 696           |
| Kin. Viscosity @100°C | mm <sup>2</sup> /s | ASTM D7042  | 40.0          |
| Viscosity Index       |                    | ASTM D2270  | 96            |
| Flash Point COC       | °C                 | ASTM D92    | >201          |
| Pour Point            | °C                 | ASTM D7346  | -15           |
| FZG Fail Load Stage   |                    | DIN 51354-2 | >12           |
| Total Acid Number     | mgKOH/g            | ASTM D664   | 0.5           |

|                       |                        |                  |
|-----------------------|------------------------|------------------|
| Date Issued: 7-1-2025 | Supersedes: 16-04-2021 | Revision Nr.: 03 |
|-----------------------|------------------------|------------------|