

## Autonics AEG - Industrial Gear Oil

Heavy-Duty Extreme Pressure Industrial Gearbox Lubricant

PRODUCT CODE: AEG (100 to 680)

PRODUCT TYPE: Industrial Gear Oil

### 1. PRODUCT DESCRIPTION

**Autonics AEG - Industrial Gear Oil** is a premium, high-performance lubricant engineered explicitly for a diverse range of industrial gear systems and heavy-duty machinery. Formulated using high-quality base oils combined with an advanced additive package, it delivers outstanding structural stability, severe load-carrying capability, and complete protection against surface degradation under high-stress operating environments.

### 2. FEATURES AND BENEFITS

- **Superior Wear Protection:** Greatly limits mechanical friction, protecting internal gears and extending components' operational lifecycle.
- **Extreme Pressure Support:** Delivers exceptional performance and film-strength durability under high-load, extreme pressure conditions.
- **Thermal & Oxidation Stability:** Offers high resistance to chemical breakdown, oxidation, and sludge formation at high temperatures.
- **System Temperature Control:** Actively reduces internal operational friction, keeping operating temperatures controlled.
- **Rust & Corrosion Shielding:** Inhibits moisture damage and corrosive deposits on crucial yellow metal and steel parts.
- **Material Compatibility:** Fully safe and compatible with standard seal varieties and internal machinery components.
- **Extended Fluid Durability:** Maintains structural stability over long change intervals, reducing servicing downtime.

### 3. TECHNICAL SPECIFICATIONS

| PROPERTIES              | METHOD     | UNIT               | 100   | 150   | 220   | 320   | 460  | 680  |
|-------------------------|------------|--------------------|-------|-------|-------|-------|------|------|
| ISO Viscosity Grade     | —          | —                  | 100   | 150   | 220   | 320   | 460  | 680  |
| Kinematic Visc. @ 40°C  | ASTM D445  | mm <sup>2</sup> /s | 100   | 150   | 220   | 320   | 460  | 680  |
| Kinematic Visc. @ 100°C | ASTM D445  | mm <sup>2</sup> /s | 11.23 | 14.93 | 19.15 | 25.4  | 30.6 | 42.1 |
| Viscosity Index (VI)    | ASTM D2270 | —                  | 98    | 98    | 98    | 98    | 97   | 105  |
| Flash Point             | ASTM D92   | °C                 | 238   | 250   | 257   | 262.5 | >250 | >250 |
| Pour Point              | ASTM D97   | °C                 | -23   | -15   | -15   | -15   | -12  | -9   |

### 4. APPLICATION GUIDELINES

- **Industrial Gearboxes:** Ideally optimized for high-load industrial reduction gears, heavy-duty machinery systems, spur, bevel, and helical gear drives.
- **Severe Machinery Systems:** Provides excellent protection for differentials, transfer cases, and mechanical systems operating in severe high-load environments.
- **Storage Recommendations:** Always store fluid packages inside a cool, clean, and dry facility away from direct sunlight exposure or extreme cold.

### 5. SAFETY, HANDLING & HEALTH INFORMATION

**Precautions & Handling:** Prevent prolonged, repetitive skin exposure. Utilize appropriate personal protective equipment (PPE), including oil-resistant gloves and safety glasses during manual handling. Available in premium industrial **\*\*20-Liter Buckets\*\*** and **\*\*208-Liter Drums\*\*** packaging configurations.

**First Aid Measures:** Skin contact: instantly clean affected zones with soap and water. Eye contact: flush cleanly with water and request medical evaluation immediately. If accidentally ingested, **\*\*do not induce vomiting\*\***; seek medical attention immediately.

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