



**MAXIGEAR  
and MOLY MAXIGEAR**

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# TECHNICAL DATA

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## **DESCRIPTION:**

**MAXIGEAR** lubricants are premium; multi-purpose gear lubricants designed for excellent performance when extreme-pressure (EP) properties are needed to protect hypoid, stress spiraled, beveled and other types of gears from scuffing and wear, whether it be automotive, commercial or industrial applications.

**MAXIGEAR** gear lubricants are formulated from high VI, hydrocracked, paraffin-based mineral oils and a state-of-the-art additive system to insure exceptional performance. **MAXIGEAR** lubricants are inhibited against oxidation, corrosion and foaming. Anti-wear properties minimize wear and scuffing which keeps gears from becoming noisy, as well as extend their life. Proprietary chemistry has been developed to produce a new, clean additive to prevent gears from varnishing under heavy stress or loads.

*MAXIGEAR gear lubricants are the next generation of gear oils that meet new manufacturer's performance requirements, including:*

- Thermostability
- Component cleanliness
- Oil seal compatibility
- Gear spalling resistance
- Improved copper corrosion resistance
- Improved gear scoring resistance

**MAXIGEAR** is available in the following

- SAE 80  
(AD100 and AD105, with  $MoS_2$ )
- SAE 80W90  
(AD101 and AD106, with  $MoS_2$ )
- SAE 90  
(AD102 and AD107, with  $MoS_2$ )
- SAE 85W140  
(AD103 and AD108, with  $MoS_2$ )
- SAE 140  
(AD104 and AD109, with  $MoS_2$ )

**MAXIGEAR** gear lubricants are also available with Molybdenum Disulfide ( $MoS_2$ ) for extra EP and wear protection.



48 Sulphur Springs Road • Irwin, PA 15642  
Office: 412.351.1234  
Toll Free: 1.888.673.0363  
Email: [admaxoil1@gmail.com](mailto:admaxoil1@gmail.com)  
Website: [www.admaxperformancelubricants.com](http://www.admaxperformancelubricants.com)

**ADMAX Performance Lubricants – A leader in lubricant technology**

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### USES:

- Where API GL-3, GL-4 and GL-5 gear oils are recommended
- Where extreme pressure is required in all heavy-duty truck rear axles  
(Meets and exceeds MIL-L-2105 D and AGMA 3EP, 4EP, 5EP, 6EP and 7EP requirements)

### SPECIFICATIONS:

| ITEM                          | ASTM <sup>(1)</sup> | AD100<br>AD105 | AD101<br>AD106 | AD102<br>AD107 | AD103<br>AD108 | AD104<br>AD109 |
|-------------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|
| Color                         | N/A                 | Red / Black    |                |                |                |                |
| Demulsibility                 | N/A                 | Excellent      |                |                |                |                |
| SAE Grade                     | J-306               | 80             | 80W90          | 90             | 85W140         | 140            |
| AGMA <sup>(2)</sup> Grade     | N/A                 | 3EP            | 4EP            | 5EP            | 6EP            | 7EP            |
| Timken OK Load, Pounds        | D-2782              | 60 / 60+       |                |                |                |                |
| Viscosity Index               | D-2270              | 95             | 98             | 95             | 98             | 98             |
| Viscosity:                    |                     |                |                |                |                |                |
| SUS @ 100 <sup>o</sup> F      | D-2161              | 440            | 955            | 1,110          | 1,985          | 2,150          |
| SUS @ 210 <sup>o</sup> F      | D-2161              | 55/65          | 85/95          | 100/120        | 130/145        | 150/165        |
| Pour Point ( <sup>o</sup> F)  | D-97                | -27            | -25            | -23            | -12            | -15            |
| Flash Point ( <sup>o</sup> F) | D-92                | 400            | 400            | 405            | 410            | 410            |
| Foam Test                     | D-982               | Pass           |                |                |                |                |
| Copper Corrosion              | D-130               | Pass, 1b       |                |                |                |                |

(1) American Society for Testing and Materials (ASTM)

(2) American Gear Manufacturers Association (AGMA)



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**TECHNICAL  
DATA**

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**MAXIGEAR, AD100, AD101, AD102, AD103 and AD104;  
and  
MOLY MAXIGEAR, AD105, AD106, AD107, AD108 and AD109**

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**SPECIFICATIONS:**

| ITEM                          | ASTM <sup>(1)</sup> | AD700 | AD701 | AD702 |
|-------------------------------|---------------------|-------|-------|-------|
| ISO Viscosity                 | N/A                 | 22    | 46    | 68    |
| API Gravity                   | D-287               | 33.5  | 31.5  | 30.8  |
| Viscosity Index               | D-2270              | 95    | 95    | 98    |
| Viscosity:                    |                     |       |       |       |
| cSt @ 40 <sup>0</sup> C       | D-445               | 20.6  | 43.8  | 63.9  |
| cSt @ 100 <sup>0</sup> C      | D-445               | 4.1   | 6.6   | 8.5   |
| Pour Point ( <sup>0</sup> F)  | D-97                | -15   | -10   | 0     |
| Flash Point ( <sup>0</sup> F) | D-92                | 385   | 435   | 455   |
| Fire Point ( <sup>0</sup> F)  | D-92                | 435   | 485   | 505   |
| Aniline Point                 | D-611               | 212   | 220   | 229   |
| Carbon, Percentage            | D-189               | .05   |       |       |
| Sulfated Ash, Percentage      | D-874               | NIL   |       |       |

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