



## GRAFIA PA GEAR OILS

Tesla Grafia PA gear oils are premium quality fully synthetic heavy duty gear oil, formulated from Poly Alpha Olefins (PAO) and selected additives and is primarily recommended for enclosed gear units working under severe shock operating conditions.

Tesla Grafia PA gear oils provides excellent protection against high loads, prevent damage on tooth- and friction surfaces. Furthermore Tesla Grafia PA gear oils show excellent protection against rust and oxidation, while the excellent demulsification of the product allows easy water drain off.

Tesla Grafia PA gear oils are recommended for the lubrication of heavy duty industrial gear boxes working under severe load and high temperatures conditions.

**Specifications:** ISO 12925-1 Enclosed Gears of Category CKD, DIN 51517 Part 3 – Lubricating Oils CLP AGMA 9005-E02 – Extreme Pressure Gear Lubricants, AIST (US Steel) Requirements No. 224 Lead Free EP Gear Oil, David Brown S1.53.101(E)

| ISO Viscosity Grade              | 68    | 100  | 150   | 220   | 320   | 460  | 680  | 1000 |
|----------------------------------|-------|------|-------|-------|-------|------|------|------|
| Density, g/cc, D 4052            | 0.86  | 0.86 | 0.87  | 0.87  | 0.87  | 0.88 | 0.88 | 0.94 |
| Cst at 40°C, D 7042              | 68    | 100  | 150   | 220   | 320   | 460  | 680  | 1000 |
| Cst at 100°C, D 7042             | 11.33 | 14.6 | 19.73 | 26.98 | 26.98 | 46.6 | 58.3 | 62.2 |
| Viscosity Index, D 2270          | 158   | 147  | 147   | 152   | 152   | 152  | 148  | 172  |
| COC Flash, D 92,°C               | 240   | 240  | 257   | 221   | 235   | 250  | 250  | 270  |
| Pour Point, D97,°C               | -48   | -45  | -45   | -37   | -37   | -30  | -20  | -20  |
| FZF pass Stage, Min, DIN 52354-2 | 11    | 12   | 12    | 12    | 12    | 12   | 12   | 12   |
| AGMA Number                      | 2EP   | 3EP  | 4EP   | 5EP   | 6EP   | 7EP  | 8EP  |      |
| P.Code                           | 4476  | 4477 | 4478  | 4479  | 4480  | 4481 | 4482 | 4483 |

Color Varies from Country to Country. Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. Advice and opinion noted herein are given in good faith and on the basis of the best information available, information is based on past history of the grade only and must not be construed as a guarantee of performance nor any legal liability is accepted by Tesla Corporation or any of its affiliates. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available with your nearest TESLA office or [www.teslalube.com](http://www.teslalube.com) © Tesla Corporation, 2011

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Date Superseded:

Revision nr:

**TESLA TECHNOPRODUCTS FZE**

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