



Raysun Calypso PA

Synthetic Heavy-Duty Industrial Gear Oil

Raysun Calypso PA series are premium quality synthetic heavy duty industrial gear oils offering outstanding lubrication performance and load carrying capacity under severe operating conditions including shock loading. These are formulated from Polyalphaolefin (PAO) synthetic base stocks having exceptional oxidation resistance and thermal properties and excellent low temperature fluidity. The combination of naturally high viscosity index base stocks coupled with carefully selected additive technology provides excellent protection against scuffing and resistance against micropitting fatigue under wide operating temperature range.

Advantages

- Outstanding load carrying capability and micropitting performance protects gears against scuffing and wear leading to enhanced equipment life and reduced maintenance costs
- High viscosity index base stocks provide excellent low temperature fluidity and effective lubrication over a wide temperature range
- Superior thermo-oxidative stability provides enhanced system cleanliness and enables longer service intervals
- Low traction and enhanced lubricity helps provide extra energy efficiency
- Excellent resistance to rust and corrosion protection and good demulsibility ensures trouble free operation at high temperatures and applications encountering water contamination
- Good seal and paint compatibility with a wide variety of seals and paints

Applications

- Heavy-duty industrial enclosed gear boxes operating under severe conditions like high load, extreme temperatures and wide temperature ranges
- Filled for life systems
- Bearing and circulation systems where high temperatures are encountered

Specifications

- DIN 51517 Part 3, AISE(US Steel) 224
- David Brown S1.53.101(E), AGMA 9005 E-02



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| ISO Viscosity Grades | | | | | | | Test Method | Specification |
|----------------------|-------|-------|-------|-------|-------|-------|----------------------|----------------------------|
| 1000 | 680 | 460 | 320 | 220 | 150 | 100 | | |
| 0.857 | 0.856 | 0.856 | 0.852 | 0.849 | 0.842 | 0.840 | ASTM D 1298 | Density @ 15°C, kg/l |
| 1000 | 680 | 460 | 320 | 220 | 150 | 100 | ASTM D 445 | Viscosity @ 40 °C, cSt. |
| 160 | 160 | 156 | 154 | 153 | 151 | 150 | ASTM D 2270 | Viscosity Index |
| 258 | 256 | 254 | 252 | 248 | 246 | 242 | ASTM D 92 | Flash Point, °C |
| -33 | -36 | -39 | -42 | -45 | -48 | -48 | ASTM D 97 | Pour Point, °C |
| Pass | Pass | Pass | Pass | Pass | Pass | Pass | D 665A/B | Rust Test |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | ASTM D 130 | Copper Corrosion |
| >14 | >14 | >14 | >14 | >14 | >14 | >14 | DIN 51354 Part II | FZG, fail load stage |

Note: "All of the results are typical and the results of each batch are presented in the COA sheet."