



INDUSTRIAL TITANUS EP SYNPAO



DESCRIPTION

TITANUS EP SYNPAO is a premium tier industrial gear oil formulated to deliver a high level of microscopic wear resistance, bearing protection and compatibility with the elastomers liquid sealant and paints found in modern gearbox designs. It is formulated with a specially selected PAO-based basestocks and a top of the class additive system, free of any lead compounds. It provides for excellent demulsifying properties, outstanding thermal stability and high load-carrying capacity.

APPLICATIONS

TITANUS EP SYNPAO exceeds the performance requirements of Siemens MD (Flender; Rev. 14) specification for helical, bevel and planetary gears subject to highly stresses conditions and demonstrates a boosted load-carrying capacity (as contrasted against other conventional gear oils). it can be also used in non-gear applications including highly loaded, low-speed plain and rolling contact bearings.

CHARACTERISTICS-BENEFITS

| CHARACTERISTICS | BENEFITS |
|--|---|
| High film strength excellent load carrying capacity. | Gear teeth protection from wear, surface distress, and premature failure. |
| EP & AW properties. | Superior antiwear protection in boundary lubrication's condition. |
| Improved thermal and oxidation stability. | Minimal degradation even when operating in conditions of oxidation. Prolongation of service life |
| Exceeds strict Flender requirements. | Superior resistance to microscopic wear (micropitting). |
| Fully compatible with seal materials. | Reduction of oil leaks. |
| Wide range of applications | Less storage costs. |

PHYSICAL-CHEMICAL CHARACTERISTICS

| TITANUS EP SYNPAO | METHOD | 150 | 220 |
|---|------------|-------|-------|
| Density at 15°C, g/cm ³ | ASTM D1298 | 0,889 | 0,894 |
| Viscosity, Kinematic (cSt) 40 ⁰ C | ASTM D445 | 156 | 223 |
| Viscosity, Kinematic (cSt) 100 ⁰ C | ASTM D445 | 20,1 | 26 |
| Viscosity index | ASTM D2270 | 149 | 149 |
| Flash point, COC, °C | ASTM D92 | 255 | 260 |
| Pour point, ° C | ASTM D97 | -23 | -20 |
| FZG gear scuffing test, A/8.3/90 | DIN 51354 | 12+ | 12+ |
| FZG Micropitting test | ASTM D5182 | High | High |
| Brugger test, N/mm ² | DIN 51347 | >65 | >65 |

The above mentioned characteristics represent mean values.

SPECIFICATIONS

DIN 51517 Part 3 CLP, DIN 51502, ISO 6743-6 (ISO-L-CKC/-CKD), AIST U.S. Steel 224, David Brown S1.53.101
Exceeds/Meets: Siemens MD (Flender) Müller Weingarten GmbH, Fives Cincinati EP GO