



# 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 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	220	320
Density at 15°C, g/cm <sup>3</sup>	ASTM D1298	0,875	0,876
Viscosity, Kinematic (cSt) 40 <sup>0</sup> C	ASTM D445	220	320
Viscosity, Kinematic (cSt) 100 <sup>0</sup> C	ASTM D445	25.0	33.1
Viscosity index	ASTM D2270	143	145
Flash point, COC, °C	ASTM D92	255	254
Pour point, ° C	ASTM D97	-36	-33
FZG gear scuffing test, A/8.3/90	DIN 51354	12+	12+
FZG Micropitting test	ASTM D5182	High	High
Brugger test, N/mm <sup>2</sup>	DIN 51347	>65	>65

The above mentioned characteristics represent mean values.

## SPECIFICATIONS

DIN 51517-3 (2008/11), DIN 51502; ISO 6743-6 (ISO-L-CKC/-CKD), ISO 12925-1 CKC, CKD (2002); AIST (U.S. Steel) 224 (Updated); David Brown S1.53.101; AGMA 9005-E02 (2002) EP Oils; Brugger Test  
 Πληροί: Siemens MD (Flender), Müller Weingarten GmbH (Schuler Pressen), Fives (Cincinnati Milacron) EP GO