

Product Data

ZIE GEAR SP F High Performance Anti Micro Pitting Gear Oil

Description:

Zie Gear SP F series gear oils are premium quality range of heavy duty gear oils designed to lubricate modern industrial gear boxes working under extreme pressure conditions. Zie Gear SP F grades incorporate the latest technology additive system, providing clean gear performance and excellent protection against micro pitting wear. Also these oils give excellent protection against rust and corrosion protection, enhanced oxidation stability and resistance to foaming. Inherent friction modifying characteristic reduces the friction which in turn enhances gear efficiency and reduces power consumption as well.

Features:

- Excellent oxidation and thermal stability
- Resistance to Micro pitting
- Enhanced anti wear and extreme pressure properties
- Excellent Demulsibility characteristics
- Very low tendency to foaming

Specifications:

Meeting the requirements of

- Siemens MD approval for Flender gear boxes Revision 15
- DIN 51517 (CLP) Part III (2014)
- AGMA 9005-F16 Anti scuff
- AIST 224
- David Brown S1.53.101 TYPE M,A & E
- ISO 12925-1 (CKC/CKD)
- GB 5903-2011 (CKD)
- Fives Cincinnati EP Gear Oils

Applications:

Zie Gear SP F gear oils are recommended for splash or circulation lubrication of all types of enclosed gears especially where the operating conditions involve heavy loads, high speeds and high relative sliding velocities at elevated ambient and operating temperatures in industrial applications in Cement , power and Steel, Cement, paper and power industries. Also this type of oils are recommended for the lubrication of bevel spur, helical and planetary gear boxes.

Typical characteristics:

Name	Test Method	Zie Gear SP F		
		220	320	460
Appearance	Visual	Clear & Bright	Clear & Bright	Clear & Bright
Kinematic viscosity at 40 °C, cSt min.	ASTM D 445	220	320	460
Viscosity index, min.	ASTM D 2270	95	95	90
Flash point, COC, °C, min.	ASTM D 92	230	230	230
Pour Point, °C	ASTM D 97	(-) 15	(-) 15	(-) 15
FZG fail load stage, (A 8.3/90)	DIN 51354 / ISO 14635	>12	>12	>12
FVA 54/7 FZG Micropitting Resistance (90°C) fail load stage ,	GFT rating	> 10 High	> 10 High	> 10 High
Timken OK load, min., in kg	ASTM D 2782	60	60	60
Rust Prevention -Sea Water	IP 135B	Pass	Pass	Pass
Weld load, kgs, min	ASTM D2783	250	250	250

The above figures are typical figures with normal production tolerance.

Health & Safety

These oils are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.