

Product Data Sheet

Tivano EP G-Synth

Description and Applications

Saheli Tivano EP G-Synth series are 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 Polyalkylene glycol (PAG) synthetic base stocks having exceptional micro pitting protection, oxidation resistance and thermal properties and excellent low temperature fluidity.

The combination of naturally extremely high viscosity index base stocks coupled with carefully selected additive technology provides excellent thermal stability, protection against scuffing and resistance against micro pitting fatigue under wide operating temperature range.

Features and Benefits

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

Applications

- **ISO VG 150 – 680** range is approved by Flender for use in Helical, Bevel and Planetary gear units as indicated in BA 7300.
- Heavy-duty industrial enclosed gearboxes operating under severe conditions like high load, extreme temperatures and wide temperature ranges.
- **ISO VG 320** is specifically developed for lubrication of wind turbine gearbox manufactured by Hansen, Flender, Rexroth, FAG, etc where such quality lubricants are recommended.
- Filled for life systems, chain and conveyors, kiln and ovens, compressor (reciprocating/rotary)
- Bearing and circulation systems where high temperatures are encountered.

Specifications

- DIN 51517 Part 3
- David Brown Type G Lube
- US Steel 224
- Flender AG, Rev. 10

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Test Parameters	Test Method	Typical Results						
		68	150	220	320	460	680	1000
ISO VG								
Density @ 15°C gm/cm ³	ASTM D 1298	1.042	1.057	1.057	1.062	1.067	1.072	1.089
Viscosity Index	ASTM D 2270	214	232	242	252	262	272	284
Viscosity @ 40°C (cSt)	ASTM D 445	68	150	227	339	477	689	1000
Pour Point °C	ASTM D 97	-51	-47	-42	-39	-36	-33	-30
Flash Point (COC) °C	ASTM D 92	284	284	284	282	284	287	296
Rust Prevention	ASTM D 665 A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG, Fail load stage	ASTM DIN 51324	-	>12	>12	>12	>12	>12	>12
Copper Corrosion, 3hrs @ 100°C	ASTM D 130	1a	1a	1a	1a	1a	1a	1a
Emulsion Test 30 min, max @ 82°C	ASTM D 1401	Pass	Pass	Pass	Pass	Pass	Pass	Pass

The information contained in this data sheet are indicative and correspond to the date of publication of this document. The above data are based on laboratory tests. It is the reader's interest to ensure whether the most recent version of the data sheet. A safety data sheet is available on request by our sales consultant. For more information, please contact the sales department.