

Product Data Sheet

Tivano EP Synth

Description and Applications

Saheli Tivano EP Synth oils are premium quality synthetic heavy-duty industrial gear oils offering outstanding lubrication performance and load carrying capacity under severe operating conditions including shock loading.

Saheli Tivano EP Synth is formulated from PolyAlphaOlefins (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 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

Saheli Tivano EP Synth oils are applicable for heavy-duty industrial enclosed gear boxes operating under severe conditions like high load, extreme temperatures and wide temperature ranges and are suitable for filled for life systems and bearing and circulation systems where high temperatures are encountered.

Specifications

- DIN 51517 Part 3-CLP
- AFNOR NFE 48-603 (HV)
- ISO 12925-1 Type CKD
- AGMA 9005 E-02
- David Brown S1.53 101(E)
- US Steel 224
- Flender AG
- AISE (US Steel) 224

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Test Parameters	Test Method	Typical Results						
		100	150	220	320	460	680	1000
ISO VG								
Density @ 15°C gm/cm3	ASTM D 1298	0.847	0.849	0.853	0.856	0.859	0.869	0.879
Viscosity Index	ASTM D 2270	149	143	146	150	158	160	160
Viscosity @ 40°C (cSt)	ASTM D 445	100.3	150.3	220.6	320.6	462	685.2	951.8
Pour Point °C	ASTM D 97	-42	-39	-33	-30	-27	-24	-24
Flash Point (COC) °C	ASTM D 92	242	246	250	252	258	262	266
Rust Prevention	ASTM D 665 A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG, Fail load stage	ASTM DIN 51324-2	>12	>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