



## **HEAVYGEAR EP-S PAO SERIES** **SYNTHETIC INDUSTRIAL GEAR OILS**

### **Product Description:**

Tarmond Heavygear EP-S PAO Series polyalphaolefin (PAO) technology has been selected for its exceptional oxidation resistance and thermal properties. This exclusive synthetic base fluid is the foundation for this novel, balanced gear oil formulation, which delivers benefits in micro pitting, viscosity index, air release, and low temperature flow characteristics versus other synthetic gear oils. It is produced by blending a premium quality PAO base oil, extreme pressure additives intended for use in all types of enclosed gear drives with circulation or splash lubrication systems. It is also suitable as a bearing oil for highly loaded plain bearings. Tarmond Heavygear EP-S PAO Series has excellent anti-wear and anti-friction properties. Particularly recommended for certain 'lubricated-for-life' systems.

### **Applications:**

Tarmond Heavygear EP-S PAO Series are recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears. They are recommended for applications that may be subject to micro pitting; especially heavily loaded gearboxes with surface-hardened tooth metallurgies. It may also be used in gear applications where extreme low and/or high temperatures are encountered and applications where corrosion may be severe.

### **Benefits:**

- Helps extend gear and bearing life in enclosed gear drives operating under extreme conditions of load, speed and temperature
- It reduces unplanned downtime and maintenance costs premature bearing failure and gearbox replacement especially critical for difficult to access gearboxes
- It reduces oil consumption and maintenance costs through extended oil life and drain intervals, offers better protection of equipment and longer drain intervals for optimized maintenance costs
- It provides smooth, trouble-free operations in all operating conditions and helps reduce additional on-site filtration and associated costs
- It has superior antifoam capacity and a very low pour point for an easier start up after a longer period of inactivity

**Meets Performance:** API GL-4, DIN 51517 Part 3, US Steel 224, ISO 12925-1, Cincinnati Machine P34/63/76/77/78, GE D50E32 AC, SEW EURODRIVE

**Please check your owner's manual for the manufacturer's recommended oil viscosity grade and API classification and approvals.**

**Technical Data:**

<b>TARMOND HEAVYGEAR EP-S PAO SERIES</b>	<b>Test method</b>						
SAE Grade		68	100	150	220	320	460
Density at 15°C gr/cm³	ASTM D 1298	0.850	0.852	0.855	0.858	0.860	0.862
Viscosity at 40°C cSt	ASTM D 445	68	100	150	220	320	460
Viscosity Index	ASTM D 2270	140	145	150	155	160	165
Flash point °C	ASTM D 92	225	230	230	235	240	240
Pour point °C	ASTM D 97	-41	-40	-39	-38	-36	-35
4 Ball Ep Weld, kg, min LWI, kg, min	ASTM D 2783	250 45	250 45	250 45	250 45	250 45	250 45
4 Ball Wear 54°C/1800 rpm/20 kg/1hr Scar Diameter, mm, max	ASTM D 2266	0.33	0.33	0.33	0.33	0.33	0.33
FZG A/8.3/90 Fail Load Stage, min.		12 <sup>th</sup> Stage Pass	12 <sup>th</sup> Stage Pass	13 <sup>th</sup> stage Pass	13 <sup>th</sup> stage Pass	13 <sup>th</sup> stage Pass	13 <sup>th</sup> stage Pass
Copper Strip  3hours/100°C, max	ASTM D 130	1B	1B	1B	1B	1B	1B

Above values are the typical values of the products and may vary with each batch.