

# SUPERIOR SYNTHETIC EP GEAR OIL

## Approved by Siemens (Flender)

SUPERIOR SYNTHETIC EP GEAR OIL is a long-life product that will keep machine components free of carbon deposits and varnish for the life of the equipment. The fully synthetic polyalphaolefin (PAO) oil is naturally resistant to oxidation at high temperatures; it is augmented using antioxidant additives resulting in service durations up to 40,000 hours.

Other performance-related additives are anti-wear and anti-foam, plus an additive to protect metal from corrosion. This combination has been specially developed for use under all conditions, but especially where temperatures or operational loads are high.

Meets the following requirements:

- Siemens MD Rev. 16. (formerly Flender)
- DIN 51517-3: 2018-09 CLP.
- AGMA 9005-F16 2016 AS
- ISO 12925-12018-01 CKD & CKSMP
- GB 5903: 2011 L-CKD

Keep sealed drums and pails out of direct sunlight and at temperatures between 32°F (0°C) and 100°F (40°C). We recommend using the product within two years of opening the container.

### BENEFITS:

- LONG OIL LIFE – very high resistance to formation of varnish and sludge
- ANTI-RUST– outstanding protection from corrosion
- NO FOAM – inhibits formation of foam
- ANTI-WEAR – additives protect your investment
- SEPARATION – rapid water separation

### APPLICATIONS:

Suitable for use in enclosed gearboxes, both conventional and planetary types.

- Severe load or shock load
- Nearby heat source
- Cold conditions
- Irregular oil changes or no oil changes
- Where Flender (Siemens) approval is required
- Micro-pitting and wear have occurred
- Under-engineered gearboxes

CHARACTERISTICS				
	ISO Viscosity Grade	220	320	460
ASTM D-445	Kinematic Viscosity cSt @ 40°C	220	320	460
ASTM D-2270	Viscosity Index	182	186	191
ASTM D-97	Pour Point, °F (°C)	-54 (-48)	-49 (-45)	-49 (-45)
ASTM D-92	Flash Point, °F (°C) Cleveland Open Cup	495 (257)	484 (251)	473 (245)
	Four Ball weld pointk, kgf	250	250	250
DIN 14635-1	FZG scuffing test (A/8.3/90), fail stage	>12	>12	>12
FVA 54	Micropitting Test, failure load stage	10	10	10
FVA 54	Micropitting Test, rating	GFT - High	GFT - High	GFT - High
ASTM D-1298	Specific Gravity	0.86	0.86	0.86
ISO 4264-4	Oxidative Stability, viscosity increase @ 100°C	2.56	1.28	3.12

The above are typical values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

### PACKAGING:

Totes	Drums	Kegs	Pails
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Rev. March 29, 2022

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