

PRODUCT INFORMATION

## ECOSE® SYNTHETIC EP GEAR OIL

**ECOSE® Synthetic EP Gear Oils** are synthetic extreme pressure (EP) gear oils designed to provide extra protection and very long service life in highly loaded gear boxes that may be operated over very wide temperature range.

**FEATURES AND BENEFITS:**

**ECOSE® Synthetic EP Gear Oils** series is designed to protect heavily loaded gears and bearings in extreme pressure service that includes sustained high temperatures. They also enable much longer drain interval service than conventional industrial gear oils and usually eliminate the need for seasonal changes due to their very good low temperature flow characteristics. Other benefits include:

- Excellent EP protection
- Excellent oxidation resistance and thermal stability
- Excellent rust and corrosion protection
- Excellent lubrication flow characteristics over very wide temperature ranges.
- Extremely low pour points
- Very good water separation, foam resistance and air release properties

**APPLICATIONS:**

**ECOSE® Synthetic EP Gear Oils** are recommended for heavily loaded industrial gear boxes where excellent lubrication is required over a wide range of operating temperatures and extended drain intervals are essential. Applications include the following requirements in the appropriate viscosity:

- |                       |                                      |
|-----------------------|--------------------------------------|
| • DIN 51517-3         | • Cincinnati Machine (Gear C Series) |
| • US Steel 224        | • AGMA 9005-E02 EP                   |
| • ISO 12925-1 CKC/CKD | • GM LS-2                            |

**AVAILABILITY:**

**ECOSE® Synthetic EP Gear Oils** are available throughout Nu-Tier Brand’s marketing area. Your Nu-Tier representative can provide specific information. Need additional information? Call Nu-Tier @ 1-877-771-LUBE (5823) or visit ***Nu-tierbrands.com***.

## ECOSE® Synthetic EP Gear Oils

### Typical Properties

ISO Viscosity Grade		68	100	150	220	320	460	680
<b>Product Code</b>	<b>Test Method</b>	543901	543902	543903	543904	543905	543906	543907
AGMA Number		2EP	3EP	4EP	5EP	6EP	7EP	8EP
Viscosity, cSt @ 40°C	ASTM D-445	67	97	152	215	325	455	635
Viscosity, cSt @ 100°C	ASTM D-445	11.6	13.5	18.9	26	38	45	57
Viscosity Index	ASTM D-2270	145	150	150	160	160	160	160
Flash Point, COC, °F (°C)	ASTM D-92	473(245)	473(245)	482(250)	482(250)	482(250)	482(250)	482(250)
Pour Point, °F (°C)	ASTM D-97	-49(-45)	-40(-40)	-40(-40)	-40(-40)	-40(-40)	-40(-40)	-40(-40)
Timken OK Load, lb.	ASTM D-2782	70	70	70	70	70	70	60
4-Ball EP Test, Load-wear index, kg Weld Point, kgD-2783	ASTM D-2783	57 400	57 400	57 400	57 400	57 400	57 400	47 250
4-Ball Wear Test, 20kg, 1 hr., 1800 rpm, 54°C Wear scar diameter, mm	ASTM D-2266	0.27	0.27	0.27	0.27	0.27	0.27	0.3
FZG Gear Test, Stages	FZG	12	12	12	12	12	12	12
Rust Test	ASTM D-665A	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Copper Strip Corrosion	ASTM D-130	1A	1A	1A	1A	1A	1A	1A
API Gravity		33.5	33.6	32.4	32.0	31.8	31.2	