



TEXACO PINNACLE® EP

150, 220, 320, 460, 680

CUSTOMER BENEFITS

Texaco Pinnacle EP oils deliver value through:

- **Excellent thermal and oxidation stability** — The synthetic hydrocarbon base oils used in these products provide outstanding stability resulting in longer lubricant and equipment life.
- **High viscosity index and low pour point** — These result in very broad operating temperature ranges -46°C to 149°C (-50°F to 300°F) when compared with conventional mineral oil based lubricants.
- **Energy savings** — The synthetic base oil will typically increase gear efficiency, resulting in less power consumption.
- **Extended drain intervals** — Longer lubricant life, reduced maintenance costs, and less used oil disposal when compared to mineral oil products.

FEATURES

Texaco Pinnacle EP oils are high quality industrial EP gear lubricants.

They provide excellent load carrying and antiwear properties; protection against rust, corrosion, foaming, and oxidation; and excellent demulsibility resulting in high performance in most types of industrial gearboxes, exemplified by the FZG pass stage of >12.

These products possess very high shear stability even under heavily loaded, high speed conditions in industrial gears.

The low pour point and very good low temperature fluidity of Texaco Pinnacle EP oils impart improved lubrication during startup at sub-zero temperatures.

Their superior viscosity-temperature characteristics provide dependable lubrication at high temperatures.

A unique property of the synthetic base oil is a low traction coefficient, resulting in improved gear efficiency, energy savings, less friction, less wear, and lower operating temperatures compared to conventional mineral oil products.

Due to the very high viscosity index, these products provide a much higher oil viscosity at operating temperature than a mineral oil product of the same ISO grade. This results in increased oil film thickness and better antiwear protection for both bearings and gears.

APPLICATIONS

Texaco Pinnacle EP oils are recommended for all types of enclosed industrial gearboxes:

- especially those running continuously at temperatures up to 107°C(225°F)
- or exposed to very cold temperatures as low as -46°C(-50°F)
- or under severe service conditions, such as heavy loads or low speeds.

These products also provide excellent protection for bearings operating under similar conditions.

They can be problem-solvers for applications where mineral oil products deteriorate too rapidly or lead to premature failures.

Texaco Pinnacle EP oils meet the requirements of:

- **U.S. Steel 224**
- **AGMA 9005** and qualify as AGMA EP gear lubricants

TYPICAL TEST DATA

	150	220	320	460	680
<i>Product Number</i>	222082	222083	222081	222084	222075
<i>MSDS Number</i>	8611	8611	8611	8611	8611
AGMA Grade	4 EP	5 EP	6 EP	7 EP	8 EP
API Gravity	34.4	33.8	33.2	32.7	32.1
Viscosity, Kinematic cSt at 40°C cSt at 100°C	142 19.9	209 26.9	304 35.8	437 47.0	646 63.0
Viscosity, Saybolt SUS at 100°F SUS at 210°F	728 100	1075 132	1570 174	2267 227	3366 304
Viscosity Index	162	164	165	166	168
Flash Point, °C(°F)	242(468)	240(464)	238(460)	240(464)	242(468)
Pour Point, °C(°F)	-51(-60)	-51(-60)	-39(-38)	-36(-33)	-30(-22)
Rust Test, ASTM D 665A and B	Pass	Pass	Pass	Pass	Pass
Timken OK Load, lb	80	80	80	85	85
FZG, pass stage	>12	12	12	>12	>12

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.