

## PARAGON™ GOLD EXTREME-SERVICE GEAR OIL

Paragon™ Gold is a “eutectic” type gear oil formulated for use in all gearboxes, but especially where excessive wear and short component life drive up operating costs.

Inadequately lubricated gears and bearings can experience scuffing under high load. Scuffing occurs when the tips of opposing asperities momentarily weld. The extreme pressure and anti-wear additives used in Paragon™ Gold stops scuffing by forming a protective chemical layer in the area of contact. The surfaces continue to experience high load, but rather than micro welding, they are made smoother by the pressure.

The eutectic smoothing effect of Paragon™ Gold will also partially flatten pre-existing wear damage, usually within a few hundred hours of operation. Condemned equipment can stay in service indefinitely, or until a scheduled shutdown.

Pitting is also stopped by the use of Paragon™ Gold. Pitting is caused by metal fatigue and metal fatigue is minimized when the load is carried by a smoother surface. Some “initial pitting” may still occur when Paragon™ Gold is used, especially where there is misalignment.

All viscosity grades of Paragon™ Gold meet the requirements of DIN 51517-3.

### BENEFITS:

- **WEAR PROTECTION** - stops wear under a wide variety of operating conditions, including the most severe load.
- **SMOOTHING OF SURFACES** - smoothes contact surfaces of bearings and gears under load.
- **LONG COMPONENT LIFE** - lab testing has revealed extremely low wear and friction levels using Paragon™ Gold. Field-testing has verified outstanding wear protection.
- **LONG OIL LIFE** - Highly resistant to oxidation, a major cause of reduced lubricant life.
- **RUST PROTECTION** - leaves a film on gears that remains in place during long shutdown periods. This coating prevents rust and ensures a lubricating film at startup.
- **CLEAN** - low-sludge additive system ensures components remain clean and free of deposits for years of operation.

### APPLICATIONS:

Use Paragon™ Gold where conventional gear oils fail, where long component life is essential, or where long intervals between oil changes are unavoidable.

Suitable applications can be found in almost any industry.

ASTM #		TYPICAL CHARACTERISTICS					
	<b>ISO Grade</b>	220	320	460	680	1000	1500
	<b>AGMA Grade</b>	5 EP	6 EP	7 EP	8 EP	8A EP	9 EP
<b>D-445</b>	<b>Kinematic Viscosity</b> cSt @ 40°C cSt @ 100°C	198 - 242 18 - 23	304 - 336 24 - 32	414 - 504 31.5 - 38.5	612 - 748 40.5 - 49.5	1,000 58.2	1,500 75.0
<b>D-2270</b>	<b>Viscosity Index</b>	115	114	113	112	112	111
<b>D-97</b>	<b>Pour Point, °F (°C)</b>	0 (-18)	5 (-15)	10 (-12)	10 (-12)	15 (-9)	15 (-9)
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.30	7.30	7.50	7.40	7.50	7.60
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.88	0.88	0.90	0.88	0.90	0.91
<b>D-92</b>	<b>Flash Point, °F (°C)</b> Cleveland Open Cup	390 (199)	400 (204)	400 (204)	400 (204)	470 (243)	500 (260)
<b>D-2783</b>	<b>Four Ball EP</b> Weld Point, kg	500	500	500	500	500	500
<b>D-4172</b>	<b>Four Ball Wear</b> Scar Width, mm @ 40 kgf	0.55	0.55	0.55	0.55	0.55	0.55
<b>D-665</b>	<b>Rust Test, Distilled Water</b>	Pass	Pass	Pass	Pass	Pass	Pass
<b>D-2893</b>	<b>Oxidation for Lubricating Oils,</b> % Viscosity Change	<6	<6	<6	<6	<6	<6
<b>D-130</b>	<b>Copper Strip Corrosion</b>	1B	1B	1B	1B	1B	1B

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

Laboratory tests do not fully reflect the in-service performance abilities of Paragon™ Gold

### PACKAGING

Plastic Totes (Non-returnable)	Drums	Pails
-----------------------------------	-------	-------

For warranty information, scan the QR code.

whitmores.com

An ISO 9001 and ISO 14001 registered company

