PURUS
SYNTHETIC SOLUTIONS

CUT THE COST, NOT THE QUALITY.
"YOU CAN TAKE IT TO THE LAB."

PAO SYNTHETIC INDUSTRIAL GEAR LUBRICANT

Made in USA

DESCRIPTION

PURUS® SYNTHETIC SOLUTIONS PAO SYNTHETIC INDUSTRIAL GEAR LUBRICANT series is a fully formulated polyalphaolefin (PAO) based synthetic high performance gear lubricant. The series is formulated with an ashless advanced additive system to prevent corrosion and provide excellent wear protection. The product displays outstanding thermal, oxidative, and hydrolytic stability in gear applications that require high load protection, extended drain intervals and high performance. The low pour point and stable viscosity of the product increases effectiveness in applications where high and low temperature extremes are encountered.

The PAO Gear Lubricant series meets or exceeds:

- U.S. Steel 224 (AIST 224), AGMA 9005-E02, DIN 51517-3: CLP, David Brown S1.53.101, ISO 12925-1 CKC/CKD

APPLICATIONS*

- Helical gears
- Spiral gears
- Bevel gears

* To assure proper lubricant selection, please consult your PURUS Synthetic Solutions representative.

PERFORMANCE BENEFITS

FEATURES:	BENEFITS:
• Extremely low water content • Ashless formulation • High viscosity index and low pour point • Rust and corrosion protection • Excellent thermal and oxidative stability • Excellent Load Carrying	• Longer gear/bearing life • Lower solid formation • Better oil flow and less wear at start up • Wide operating temperature range • Maximum equipment life • Longer oil life • Longer filter life • Minimize maintenance costs

PAO SYNTHETIC INDUSTRIAL GEAR LUBRICANT

TYPICAL PROPERTIES*	TEST METHOD	ISO GRADE 68	ISO GRADE 100	ISO GRADE 150	ISO GRADE 220	ISO GRADE 320	ISO GRADE 460
Viscosity cSt @ 40° C	ASTM D-445	68.78	101.2	154.9	220.1	318.23	449.5
Viscosity cSt @ 100° C	ASTM D-445	11.80	16.5	22.9	31.02	41.17	53.78
Viscosity Index	ASTM D2270	168	177	177	184	185	185
Moisture, ppm	ASTM D-1744	<150	<150	<150	<150	<150	<150
Specific Gravity @ (60°F/15.6° C)	ASTM D-4052	0.851	0.853	0.856	0.857	0.869	0.870
Density, lb/gal	ASTM D-4052	7.10	7.12	7.14	7.15	7.25	7.26
Flash Point, °F/°C	ASTM D-92	491/255	527/275	536/280	545/285	523/273	545/285
Pour Point, °F/°C	ASTM D-97	-38/-39	-44/-42	-44/-42	-54/-48	-54/-48	-54/-48
Four Ball Weld (10 sec, 1800 rpm, 25°C)	ASTM D 2783	-	-	-	180 OK Load (kgf)/ 200 Weld Load (kgf)	180 OK Load (kgf)/ 200 Weld Load (kgf)	180 OK Load (kgf)/ 200 Weld Load (kgf)
Four Ball Wear (40 kg, 1200 rpm, 75°C, 1 hr) (20 kg, 1800 rpm, 55°C, 1 hr)	ASTM D 4172	.041mm -	0.41 mm -	0.41 mm -	0.37 mm 0.30 mm	0.37 mm 0.30 mm	0.37 mm 0.30 mm
Timken Ok Load (lbs.)	ASTM D 2782	-	-	-	75	75	75
FZG (Stage Pass) A/8.3/90	ASTM D 5182 / DIN 51354	>12	>12	>12	>12	>12	>12
FE-8, 80 kN, mg	DIN 51819-3	-	21 Roller Wear 96 Cage Wear	21 Roller Wear 96 Cage Wear	21 Roller Wear 96 Cage Wear	21 Roller Wear 96 Cage Wear	21 Roller Wear 96 Cage Wear
Steel Corrosion	ASTM D 655 A & B	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion (3 hr, 100°C)	ASTM D-130	1b	1a	1a	1a	1a	1a
Demulsibility	ASTM D1401	40/40/0 10 min.	42/38/0 15 min.	42/38/0 15 min.	41/39/0 25 min.	41/39/0 25 min.	40/38/2 30 min.

*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.

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	5 GALLON PAIL	55 GALLON DRUM	275 GALLON	330 GALLON TOTE
ISO 68	PSS27396	PSS17396	PSS57396	PSS77396
ISO 100	PSS27370	PSS17370	PSS57370	PSS77370
ISO 150	PSS27371	PSS17371	PSS57371	PSS77371
ISO 220	PSS27372	PSS17372	PSS57372	PSS77372
ISO 320	PSS27373	PSS17373	PSS57373	PSS77373
ISO 460	PSS27374	PSS17374	PSS57374	PSS77374