

PRODUCT DATA SHEET



Marathon Pro EP Gear Oil Full Syn | Full Synthetic Gear Oils ISO VG 46, 68, 100, 150, 220, 320, 460, 680, 1500

Product Description

Marathon Pro EP Gear Oil Full Syn delivers exceptional protection in extreme applications. For high temperature and heavy-duty settings, the full synthetic formulation means this fluid holds up even across extra long-life service intervals. Marathon Pro EP Gear Oil's advanced additive package works across a broad range of bearing and gears, especially those subjected to heavy shock, and where rust and corrosion are a concern.

Applications

- Extra-long-life requirements for infrequent maintenance or difficult-to-access equipment
- Large and small spur, bevel, spiral bevel, helical, herringbone, and hypoid gears
- Bath, splash, circulating, or spray mist lubrication as applicable to the proper viscosity grade
- Industrial reduction gear systems operating under severe conditions
- Systems serving both gears and bearings subject to shock and high-load conditions
- Applications requiring lubrication of bearings and components in circulating and splash-lubricated systems

Features & Benefits

- **Excellent compatibility with seals, paints, and sealants**
Ideal in industrial gear systems with a wide range of seals and elastomers
- **Extreme load carrying capabilities**
Robust anti-wear properties that yield lower operating costs, higher productivity, and longer machine life
- **Impressive oxidation resistance plus thermal stability**
Strong resistance to degradation and sludge formation. Dependable stability in heavy load and extreme heat
- **Combats rust and corrosion**
Advanced additive package helps protect against harmful rust and corrosion
- **Exceptional water separation**
Technology-driven additive package easily resists the formation of oil/water emulsions

Specifications & Approvals

Meets or exceeds requirements of:

- US Steel 224
- AGMA 9005-F16 AS
- GM LS-2
- ISO 12925-1 CKC/CKD
- Fives Cincinnati
- DIN 51517-1, 2, 3

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Technical Data (Typical values)

ISO Grade	ASTM	46	68	100	150
AGMA Grade		1EP	2EP	3EP	4EP
Kinematic Viscosity, cSt @ 40°C	D445	46	68	100	150
Kinematic Viscosity, cSt @ 100°C	D445	7.8	10.3	13.7	18.5
Viscosity Index	D2270	138	137	138	138
Specific Gravity @ 15°F	D1298	0.8479	0.8484	0.8489	0.8494
Pour Point, °F	D97	-49	-49	-40	-40
Flash Point, °F	D92	464	473	473	482
Copper Corrosion	D130	1a	1a	1a	1a
Timken OK Load, lb	D2509	70	70	70	70
Load Wear Index, kg	D2783	57	57	57	57
Weld Point, kg	D2793	400	400	400	400
Wear Scar Diameter, mm	D2266	0.27	0.27	0.27	0.27
FZG Load Stage, pass	D5182	12	12	12	12
Rust	D665A	Pass	Pass	Pass	Pass

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Marathon Petroleum Company believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.

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Technical Data (Typical values)

ISO Grade	ASTM	220	320	460	680	1500
AGMA Grade		5EP	6EP	7EP	8EP	
Kinematic Viscosity, cSt @ 40°C	D445	220	320	460	680	1500
Kinematic Viscosity, cSt @ 100°C	D445	24.5	41.7			
Viscosity Index	D2270	139	140	140	160	160
Specific Gravity @ 15°F	D1298	0.8456	0.8460	0.8466		
Pour Point, °F	D97	-40	-40			
Flash Point, °F	D92	482	482	482	482	519.8
Copper Corrosion	D130	1a	1a	1a	1a	1a
Timken OK Load, lb	D2509	70	70	70	60	60
Load Wear Index, kg	D2783	57	57	57	57	
Weld Point, kg	D2793	400	400	400	400	
Wear Scar Diameter, mm	D2266	0.27	0.27	0.27	0.27	
FZG Load Stage, pass	D5182	12	12	12	12	12
Rust	D665A	Pass	Pass	Pass	Pass	Pass

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