



INDUSTRIAL GEAR OILS

Get the most out of your gear drive systems

Our PETRONAS Gear Series oils are specially developed for modern gears that require effective lubrication to minimize wear over extended periods. They meet the needs of gearbox designs where compact, higher output gear drives are becoming the norm, that perform at faster speeds under greater loads and are constructed from cutting-edge materials. These high-quality anti-wear gear oils are ideally suited for a variety of gear drives operating under normal and demanding conditions, from worm gears to fully enclosed gearboxes and heavily loaded open gears used in mining, sugar refineries as well as power and steel processing plants.

Together with our insight-driven services and a close partnership with you, our products can help improve reliability, reduce operating costs and free up your business potential to help you move ahead to meet current and future challenges.

PETRONAS
Industrial
Solutions

Future Focused

Your key to maximizing performance

We've developed a comprehensive portfolio of industrial gear oils that serves every type of industrial gearbox application. These products feature excellent extreme pressure performance with over 12 FZG stages passed. Choose the right ones for your needs and take your gear drive systems to the next level.

Industrial enclosed spur / helical / bevel / planetary gears / worm gears

PETRONAS Gear Syn PAG

Key Benefits

- Excellent micropitting, extreme pressure and anti-wear protection
- Up to 5x longer oil life**
- High Viscosity Index
- Excellent performance including energy saving

Performance Levels

David Brown Type G lubricant; DIN 51517 Part III; Flender BA T 7300 A+B

Viscosity Grade

150, 220, 320, 460, 680

PETRONAS Gear Syn mPAO

Key Benefits

- Excellent extreme pressure and anti-wear protection
- Up to 3x longer oil life**
- High Viscosity Index
- Excellent performance including energy saving

Performance Levels

AGMA 9005-F16 AS; DIN 51517-3: 2018-09 CLP; GB 5903-2011 L-CKD; ISO 12925-1: 2018-01 CKD; ISO 12925-1: 2018-01 CKSMP; Siemens MD Approval for Flender Gear drives - Revision 16 T 7300 Table A-c

PETRONAS Gear Syn PAO

Key Benefits

- Excellent extreme pressure and anti-wear protection
- Up to 3x longer oil life**
- High Viscosity Index
- Excellent performance including energy saving

Performance Levels

AGMA 9005-E02; Cincinnati Machine P-74; David Brown S1.53.106; DIN 51517 Part III; GE approval: GED50E35; Siemens MD Revision 15; T 7300 Table A-c; U.S. Steel 224

Viscosity Grade

150, 220, 320, 460, 680

PETRONAS Gear Syn WTS

Key Benefits

- Excellent protection against corrosion, wear & shock loading
- Significantly less micropitting
- Wider operation temperatures
- Anti-foam protection

Performance Levels

David Brown Type G lubricant; DIN 51517 Part III; SIEMENS MD (Revision 15); Table T 7300 A --; HANSEN (HP1, HP2, HPP, P4 and M4ACC); Siemens MD Revision; 15 T 7300 Table A-g

Viscosity Grade

CTP

PETRONAS Gear Syn

Key Benefits

- Excellent micropitting resistance
- Excellent extreme pressure protection
- Up to 2x longer oil life**
- High Viscosity Index
- Excellent resistance to sludging

Performance Levels

David Brown Type G lubricant; DIN 51517 Part III; SIEMENS MD (Revision 15); Table T 7300 A - ; HANSEN (HP1, HP2, HPP, P4 and M4ACC); Siemens MD Revision; 15 T 7300 Table A-g

Viscosity Grade

150, 220, 320, 460, 680

PETRONAS Gear MEP

Key Benefits

- Excellent extreme pressure and anti-wear protection
- Up to 1.5x longer oil life*
- High performance

Performance Levels

AGMA 9005-E02; David Brown S1.53.101; DIN 51517 Part III; Fives Cincinnati Machine Gear; GM LS 2 EP Gear Oil; ISO 12925-1 CKC/CKD; US Steel 224

Viscosity Grade

68, 100, 150, 220, 320, 460, 680, 1000

PETRONAS Gear MEP

Key Benefits

- Excellent extreme pressure and anti-wear protection
- Up to 1.5x longer oil life*
- High performance

Performance Levels

AGMA 9005-E02; David Brown S1.53.101; DIN 51517 Part III; Fives Cincinnati Machine Gear; GM LS 2 EP Gear Oil; ISO 12925-1 CKC/CKD; US Steel 224

Viscosity Grade

68, 100, 150, 220, 320, 460, 680, 1000

Industrial open gears

PETRONAS Gear Syn OG

Key Benefits

- Lubricants light color prevents the need for gear cleaning prior to inspections, helping to reduce maintenance time and costs
- Excellent extreme pressure performance
- Excellent anti-wear protection
- Excellent oxidation stability

Viscosity Grade

3200, 4000, 6800, 8000, 12000, 18000, 24000

* vs. minimum requirements of industrial gear oils to pass the viscosity increase test (ISO 4263-4 @95°C)
** vs. conventional mineral gear oils