



PRODUCT CATALOGUE

INDUSTRIAL



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JULY 9, 2025



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A) Total Loss Systems

1) General Purpose Machinery Oil

- ISO Designation: ISO-L-AN
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-1, ISO 19378, IS 493 pt. 1, DIN 51517 Pt. 1 C
- Usage Guidelines: for various types of non-critical (Once Through or total loss) oiling applications, loom oils, lightly loaded parts (rolling bearings, gears), plain bearings operating under light duty conditions with intermittent lubrication.
- Composition: Base Oil Group II, Additives: None

2) General Purpose Spindle Oil

- ISO Designation: ISO-L-AN
- ISO Viscosity Grades: 2,5,10,15,22
- Performance Standards: ISO 6743-1, ISO 19378, IS 493 Pt.2
- Usage Guidelines: for various types of non-critical (Once Through or total loss) oiling applications, machine tools, textile machinery
- Composition: Base Oil Group II, Additives: None

3) Open Gear & Wire Rope Oil

- ISO Designation: ISO-L-AN
- ISO Viscosity Grades: 3200
- Performance Standards: ISO 6743-1, ISO 19378, IS 493 pt. 1
- Usage Guidelines: for various types of non-critical (Once Through or total loss) oiling applications of open gears and wire ropes
- Composition: Base Oil Group II, Additives: None



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B) Spindle Bearings, Bearings and Associated Clutches

4) Rust Inhibited Machinery Oil

- ISO Designation: ISO-L-FC
- ISO Viscosity Grades: 2,5,10,15,22,32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-2, ISO 19378, IS 11695
- Usage Guidelines: for general purpose, once through lubrication systems of machine tools, textile mills, paper mills, sugar mills and other allied industrial equipment. These grades are also used in hydraulic/circulation system which frequently require considerable quantity of lubricant top-up.
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%)

5) Clutch-Bearing Oil

- ISO Designation: ISO-L-FC
- ISO Viscosity Grades: 2,5,10,15,22,32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-2, ISO 19378
- Usage Guidelines: for lubrication by recirculation, splash, pressure, bath or oil mist (Aerosol) of plain, spindle, roller bearings and associated clutches
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%)

6) Vertical Steam Engine Oil

- ISO Designation: ISO-L-FC
- ISO Viscosity Grades: 100,150
- Performance Standards: ISO 6743-2, ISO 19378, IS 11695
- Usage Guidelines: for crankcase lubrication of vertical steam engines
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%)



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7) Low Viscosity AW Oil

- ISO Designation: ISO-L-FD
- ISO Viscosity Grades: 2,5,10,15,22
- Performance Standards: ISO 6743-2, ISO 19378
- Usage Guidelines: for applications requiring the use of particularly low viscosity oils, such as fine mechanisms, hydraulic or hydropneumatics mechanisms, electro-magnetic clutches, airline lubricators, spindle bearings and hydrostatic bearings
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), EP Additives (0.4 to 2%)

8) AW Bearing Oil

- ISO Designation: ISO-L-FD
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-2, ISO 19378
- Usage Guidelines: for lubrication by recirculation, splash, pressure, bath or oil mist (Aerosol) of plain, spindle, roller bearings and associated clutches
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), EP Additives (0.4 to 2%)

C-I) Air Compressors

9) Reciprocating & Rotary Drip Feed Air Compressor Oil, Normal Duty

- ISO Designation: ISO-L-DAA
- ISO Viscosity Grades: 32,46,68,100,150
- Performance Standards: ISO 6743-3: 2003, ISO 6521-1:2019, IS 13256:1992, IS 11159-4:2011, DIN 51506 VCL



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- Usage Guidelines: Normal Duty when, Discharge Temperature < 165°C and Differential Pressure < 2.5MPa and Discharge Pressure < 7MPa
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), Detergents (0.4 to 2%)

10) Reciprocating & Rotary Drip Feed Air Compressor Oil, Severe Duty

- ISO Designation: ISO-L-DAB
- ISO Viscosity Grades: 32,46,68,100,150
- Performance Standards: ISO 6743-3: 2003, ISO 6521-1:2019, IS 13256:1992, IS 11159-4:2011, DIN 51506 VDL
- Usage Guidelines: Severe Duty if, Discharge Temperature > 165°C or Differential Pressure > 2.5MPa or Discharge Pressure > 7MPa
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), Detergents (0.4 to 2%)

11) Rotary Oil Flooded Air Compressor Oil, Drain Cycle < 2000h

- ISO Designation: ISO-L-DAG
- ISO Viscosity Grades: 32,46,68
- Performance Standards: ISO 6743-3: 2003, ISO 6521-1:2019, IS 11159-4:2011, DIN 51506 VBL
- Usage Guidelines: Maximum air/lubricant temperature at the discharge flange of any air end < 100 °C; near continuous or continuous operations
- Composition: Base Oil Group II, Additives: Compressor Oil Additive Package (0.4 to 4%), AW Additives (0.4 to 2%)



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12) Rotary Oil Flooded Air Compressor Oil, Drain Cycle < 4000h

- ISO Designation: ISO-L-DAH
- ISO Viscosity Grades: 32,46,68
- Performance Standards: ISO 6743-3: 2003, ISO 6521-1:2019, IS 11159-4:2011, DIN 51506 VCL
- Usage Guidelines: for intermittent operations: routine cycling of bulk lubricant temperature from ambient to <100 °C, or maximum air/lubricant temperature at the discharge flange of any air end > 100 °C; for continuous operations: maximum air/lubricant temperature at the discharge flange of any air end > 100 °C
- Composition: Base Oil Group II, Additives: Compressor Oil Additive Package (0.4 to 4%), AW Additives (0.4 to 2%)

13) Rotary Oil Flooded Air Compressor Oil, Drain Cycle > 4000h

- ISO Designation: ISO-L-DAJ
- ISO Viscosity Grades: 32,46,68
- Performance Standards: ISO 6743-3: 2003, ISO 6521-1:2019, IS 11159-4:2011, DIN 51506 VDL
- Usage Guidelines: for all operations where bulk lubricant temperature > 100 °C
- Composition: Base Oil Group II, Additives: Compressor Oil Additive Package (0.4 to 4%), AW Additives (0.4 to 2%)

14) Dynamic Radial and Axial Turbo Compressor Oil

- ISO Designation: ISO-L-CKD
- ISO Viscosity Grades: 32,46,68,100,150
- Performance Standards: ISO 6743-3: 2003
- Usage Guidelines: for Dynamic Radial and Axial Turbo Compressor Oil, Gear Oil type oil is to be used



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- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)

C-II) Process Gas Compressors

15) Process Gas Compressor Oil

- ISO Designation: ISO-L-DGA
- ISO Viscosity Grades: 32,46,68,100,150
- Performance Standards: ISO 6521-3: 2019, ISO 6743-3: 2003, IS 11159-4: 2011
- Usage Guidelines: for N₂, H₂, NH₃, Ar, CO₂ at pressures below 104 kPa (100 bar). He, SO₂, H₂S at all pressures. CO at pressures below 103 kPa (10 bar)
- Composition: Base Oil Group II, Additives: Specially Formulated Compressor Oil Additive Package (0.4 to 4%)

C-III) Refrigeration Compressors

16) Ammonia (NH₃) Immiscible Refrigerant Compressor Oil

- ISO Designation: ISO-L-DRA
- ISO Viscosity Grades: 15,22,32,46,68,100
- Performance Standards: ISO 6521-3: 2019, ISO 6743-3: 2003, IS 11159-4: 2011, IS 4578: 1997
- Usage Guidelines: Commercial and industrial refrigeration
- Composition: Base Oil Group II, Additives: Specially Formulated Compressor Oil Additive Package (0.4 to 4%)



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17) Hydrofluorocarbons (HFCs) Immiscible Refrigerant Compressor Oil

- ISO Designation: ISO-L-DRC
- ISO Viscosity Grades: 15,22,32,46,68,100
- Performance Standards: ISO 6521-3: 2019, ISO 6743-3: 2003, IS 11159-4: 2011, IS 4578: 1997
- Usage Guidelines: Domestic refrigeration. Residential and commercial air conditioning and heat pump. Bus air conditioning systems.
- Composition: Base Oil Group II, Additives: Specially Formulated Compressor Oil Additive Package (0.4 to 4%)

18) CFCs & HCFCs Miscible Refrigerant Compressor Oil

- ISO Designation: ISO-L-DRE
- ISO Viscosity Grades: 15,22,32,46,68,100
- Performance Standards: ISO 6521-3: 2019, ISO 6743-3: 2003, IS 11159-4: 2011, IS 4578: 1997
- Usage Guidelines: Mobile air conditioning. Domestic refrigeration. Residential and commercial air conditioning and heat pump. Commercial refrigeration including transport refrigeration.
- Composition: Base Oil Group II, Additives: Specially Formulated Compressor Oil Additive Package (0.4 to 4%)

19) Carbon Dioxide (R744) Miscible Refrigerant Compressor Oil

- ISO Designation: ISO-L-DRF
- ISO Viscosity Grades: 15,22,32,46,68,100
- Performance Standards: ISO 6521-3: 2019, ISO 6743-3: 2003, IS 11159-4: 2011, IS 4578: 1997
- Usage Guidelines: Mobile air conditioning. Residential and commercial air conditioning and heat pump.



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- Composition: Base Oil Group II, Additives: Specially Formulated Compressor Oil Additive Package (0.4 to 4%)

20) Hydrocarbons (R600 Series) Miscible Refrigerant Compressor Oil

- ISO Designation: ISO-L-DRG
- ISO Viscosity Grades: 15,22,32,46,68,100
- Performance Standards: ISO 6521-3: 2019, ISO 6743-3: 2003, IS 11159-4: 2011, IS 4578: 1997
- Usage Guidelines: Industrial refrigeration. Domestic refrigeration. Residential and commercial air conditioning and heat pump.
- Composition: Base Oil Group II, Additives: Specially Formulated Compressor Oil Additive Package (0.4 to 4%)

D) Hydraulic Systems

21) Non Inhibited Hydraulic Oil

- ISO Designation: ISO-L-HH
- ISO Viscosity Grades: 10,15,22,32,46,68,100,150
- Performance Standards: ISO 6743-4: 2015, ISO 11158-HH: 2009, IS 3098: 1983, DIN 51524 Pt.1-H
- Usage Guidelines: Hydraulic Oil for general purpose
- Composition: Base Oil Group II, Additives: None

22) Corrosion Inhibited Hydraulic Oil

- ISO Designation: ISO-L-HL
- ISO Viscosity Grades: 10,15,22,32,46,68,100,150
- Performance Standards: ISO 6743-4: 2015, ISO 11158-HL: 2009, IS 3098: 1983, DIN 51524 Pt.1-HL



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- Usage Guidelines: Lubrication of hydraulic systems not requiring any particular anti-wear properties. Splash or injection lubrication of lightly loaded gears, bearings and roller bearings
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%)

23) Long Life Hydraulic Oil

- ISO Designation: ISO-L-HL
- ISO Viscosity Grades: 10,15,22,32,46,68,100,150
- Performance Standards: ISO 6743-4: 2015, ISO 11158-HL: 2009, IS 10522: 1983, DIN 51524 Pt.1-HL
- Usage Guidelines: Lubrication of hydraulic systems not requiring any particular anti-wear properties. Splash or injection lubrication of lightly loaded gears, bearings and roller bearings
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%)

24) Anti Wear Hydraulic Oil

- ISO Designation: ISO-L-HM
- ISO Viscosity Grades: 10,15,22,32,46,68,100,150
- Performance Standards: ISO 6743-4: 2015, ISO 11158-HM: 2009, IS 10522: 1983, DIN 51524 Pt.2-HLP, Denison HF-1, HF-2, HF-O; Ford M-6C32; B.F. Goodrich 0152; General Motors LH-04-1, LH-06-1, LH-15-1; Cincinnati Milacron P-68, P-69, P-70; Vickers I-286-S, M-2950-S; Racine, variable volume vane; US Steel 136, 127
- Usage Guidelines: General hydraulic systems which include highly loaded component
- Composition: Base Oil Group II, Additives: Hydraulic Oil AW Package (0.4 to 3%)



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25) Heavy Duty Hydraulic Oil

- ISO Designation: ISO-L-HV
- ISO Viscosity Grades: 10,15,22,32,46,68,100,150
- Performance Standards: ISO 6743-4: 2015, ISO 11158-HV: 2009, IS 11656: 1986, DIN 51524 Pt.3-HVLP, Denison HF-1, HF-2, HF-O; Ford M-6C32; B.F. Goodrich 0152; General Motors LH-04-1, LH-06-1, LH-15-1; Cincinnati Milacron P-68, P-69, P-70; Vickers I-286-S, M-2950-S; Racine, variable volume vane; US Steel 136, 127
- Usage Guidelines: General hydraulic systems which include highly loaded components
- Composition: Base Oil Group II, Additives: Hydraulic Oil AW Package (0.4 to 3%)

E) Gears

26) Gear Oil

- ISO Designation: ISO-L-CKB
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKB: 2018, IS 11159-7:2012, IS 8406: 1993
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or external, bevel straight or helical, worm, planetary)
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), Anti Foam (0.1 to 1%)



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27) Long Life Gear Oil

- ISO Designation: ISO-L-CKB
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKB: 2018, IS 11159-7:2012, IS 8406: 1993
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or external, bevel straight or helical, worm, planetary)
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), Anti Foam (0.1 to 1%)

28) Low Speed AW Gear Oil

- ISO Designation: ISO-L-CKC
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKC: 2018, IS 11159-7:2012, IS 8406: 1993, DIN 51517 Pt.2 CL
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or external, bevel straight or helical, worm, planetary), Stabilized oil temperature or ambient running temperature from -5°C to 100°C
- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)

29) EP Gear Oil

- ISO Designation: ISO-L-CKD
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKD: 2018, IS 11159-7:2012, IS 8406: 1993, DIN 51517 Pt.3 CLP
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or



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external, bevel straight or helical, worm, planetary), Stabilized oil temperature or ambient running temperature from -5°C to 120°C, hertz pressure of gears is generally above 500MPa i.e. load rate is said to be loaded

- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)

30) Heavy Duty EP Gear Oil

- ISO Designation: ISO-L-CKSMP
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKSMP: 2018, IS 11159-7:2012, IS 8406: 1993, DIN 51517 Pt.3 CLP
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or external, bevel straight or helical, worm, planetary), Stabilized oil temperature or ambient running temperature from -5°C to 120°C, hertz pressure of gears is generally above 500MPa i.e. load rate is said to be loaded
- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)

31) Cold Climate Gear Oil

- ISO Designation: ISO-L-CKS
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKS: 2018, IS 11159-7:2012, IS 8406: 1993
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or external, bevel straight or helical, worm, planetary), Stabilized oil



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temperature or ambient running temperature from -15°C to 120°C,
hertz pressure of gears is generally below 500MPa i.e. load rate is said
to be lightly loaded

- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), Anti Foam (0.1 to 1%), PPD (0.4 to 2%)

32) Cold Climate EP Gear Oil

- ISO Designation: ISO-L-CKT
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKT: 2018, IS 11159-7:2012, IS 8406: 1993, DIN 51517 Pt.3 CLP
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or external, bevel straight or helical, worm, planetary), Stabilized oil temperature or ambient running temperature from -15°C to 120°C, hertz pressure of gears is generally above 500MPa i.e. load rate is said to be loaded
- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%), PPD (0.4 to 2%)

F) Metalworking

33) Soluble Cutting Oil Level 0

- Performance Standards: ISO 6743-7:1986, IS 1115: 1986
- Usage Guidelines: most grinding, sawing, turning, milling operations; advisable to use drinking water or de-mineralized water for dilution; more dilution is used for less severe operations
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anionic & Non-ionic Emulsifiers (5 to 15%)



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34) Soluble Cutting Oil Level 1

- Performance Standards: ISO 6743-7:1986, IS 1115: 1986
- Usage Guidelines: most grinding, sawing, turning, milling, reaming, drilling operations; advisable to use drinking water or de-mineralized water for dilution; more dilution is used for less severe operations
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anionic & Non-ionic Emulsifiers (5 to 15%), Lubricity Improver (2 to 8%)

35) Soluble Cutting Oil Level 2

- Performance Standards: ISO 6743-7:1986, IS 1115: 1986
- Usage Guidelines: most grinding, sawing, turning, milling, reaming, drilling, boring, cutting, tapping operations; advisable to use drinking water or de-mineralized water for dilution; more dilution is used for less severe operations, stable upto 1000ppm @ 5% dilution, Excellent C.I. properties @ 7.5%
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anionic & Non-ionic Emulsifiers (5 to 15%), Lubricity Improver (2 to 8%), Anti Foam (0.1 to 1%)

36) Soluble Cutting Oil Level 3

- Performance Standards: ISO 6743-7:1986, IS 1115: 1986
- Usage Guidelines: moderate to severe grinding, sawing, turning, milling, reaming, drilling, boring, cutting, tapping, broaching operations; advisable to use drinking water or de-mineralized water for dilution; more dilution is used for less severe operations, technically equivalent to Neat Cutting Oil Level 1 @ 1:1
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anionic & Non-ionic Emulsifiers (5 to 15%), Lubricity Improver (2 to 8%), Anti Foam (0.1 to 1%), AW Additives (0.4 to 2%)



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37) Soluble Cutting Oil Level 4

- Performance Standards: ISO 6743-7:1986, IS 1115: 1986
- Usage Guidelines: severe grinding, sawing, turning, milling, reaming, drilling, boring, cutting, tapping, broaching, gear cutting, threading operations; advisable to use drinking water or de-mineralized water for dilution; more dilution is used for less severe operations, technically equivalent to Neat Cutting Oil Level 2 @ 1:1
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anionic & Non-ionic Emulsifiers (5 to 15%), Lubricity Improver (2 to 8%), Anti Foam (0.1 to 1%), AW Additives (0.4 to 2%), EP Additives (2 to 8%)

38) Soluble Cutting Oil Level 5

- Performance Standards: ISO 6743-7:1986, IS 1115: 1986
- Usage Guidelines: severe grinding, sawing, turning, milling, reaming, drilling, boring, cutting, tapping, broaching, gear cutting, threading operations; advisable to use drinking water or de-mineralized water for dilution; more dilution is used for less severe operations, technically equivalent to Neat Cutting Oil Level 3 @ 1:1
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anionic & Non-ionic Emulsifiers (5 to 15%), Lubricity Improver (2 to 8%), Anti Foam (0.1 to 1%), AW Additives (0.4 to 2%), EP Additives (2 to 8%)

39) Neat Cutting Oil Level 1

- ISO Viscosity Grades: 10,32
- Performance Standards: ISO 6743-7:1986, IS 3065:2021, Type 1



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- Usage Guidelines: moderate to severe grinding, sawing, turning, milling, reaming, drilling, boring, cutting, tapping, broaching operations
- Composition: Base Oil Group II, Additives: Lubricity Improver (2 to 8%), AW Additives (0.4 to 2%)

40) Neat Cutting Oil Level 2

- ISO Viscosity Grades: 10,32
- Performance Standards: ISO 6743-7:1986, IS 3065:2021, Type 2
- Usage Guidelines: severe grinding, sawing, turning, milling, reaming, drilling, boring, cutting, tapping, broaching, gear cutting, threading operations
- Composition: Base Oil Group II, Additives: Lubricity Improver (2 to 8%), AW Additives (0.4 to 2%), EP Additives (2 to 8%)

41) Neat Cutting Oil Level 3

- ISO Viscosity Grades: 10,32
- Performance Standards: ISO 6743-7:1986, IS 3065:2021, Type 2
- Usage Guidelines: severe grinding, sawing, turning, milling, reaming, drilling, boring, cutting, tapping, broaching, gear cutting, threading operations
- Composition: Base Oil Group II, Additives: Lubricity Improver (2 to 8%), AW Additives (0.4 to 2%), EP Additives (2 to 8%)

42) Electro Discharge Machining (EDM) Oil or Spark Erosion Oil

- ISO Designation: ISO-L-MHA
- ISO Viscosity Grades: 2,3,5
- Performance Standards: ISO 6743-7:1986
- Usage Guidelines: Specifically formulated as a low-fuming, non-staining EDM oil



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- Composition: Base Oil Group II, Additives: None

43) Cold Rolling Oil

- ISO Designation: ISO-L-MHA
- ISO Viscosity Grades: 2,3,5,10,15,22
- Performance Standards: ISO 6743-7:1986
- Usage Guidelines: low viscosity oil are more suitable for aluminium cold rolling (like 2,3,5) and high viscosity oil are more suitable for stainless steel cold rolling (like 10,15,22)
- Composition: Base Oil Group II, Additives: None, Anti Corrosion (0.4 to 2%)

G) Rust Preventives

44) Rust Preventive Oil, light duty

- ISO Designation: ISO-L-RC
- ISO Viscosity Grades: 10,32,100
- Performance Standards: ISO 6743-8:1987
- Usage Guidelines: machined and ground parts between operations; light-duty conditions: (1) Storage, for periods of less than 4 months, of parts not exposed either
 - to humidity due to repeated condensation (stores or rooms subject to variable temperatures), or
 - to particularly corrosive conditions (acidic or alkaline vapours, smoke, etc.).(2) Short-term movement of parts in closed and dry conditions (for example, air-tight packaging, air-tight containers or enclosed vehicles).
- Composition: Base Oil Group II, Additives: Anti Corrosion Compound (10 to 40%), Demulsifier (5 to 15%)



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45) Rust Preventive Oil, moderate duty

- ISO Designation: ISO-L-RCC
- ISO Viscosity Grades: 10,32,100
- Performance Standards: ISO 6743-8:1987
- Usage Guidelines: machined and ground parts between operations; can be used for Steel sheets, plate metal parts; steel tubes, bars and wires; Cast parts, machined parts-interoperations or for completely knocked down; Nuts, bolts, screws; Aluminum sheets
- Composition: Base Oil Group II, Additives: Anti Corrosion Compound (10 to 40%), Demulsifier (5 to 15%)

46) Rust Preventive Oil, severe duty

- ISO Designation: ISO-L-RD
- ISO Viscosity Grades: 10,32,100
- Performance Standards: ISO 6743-8:1987
- Usage Guidelines: Steel sheets, plate metal parts; steel tubes, bars and wires; Cast parts, machined parts-interoperations or for completely knocked down; Nuts, bolts, screws; Aluminum sheets; severe duty conditions: All cases other than those covered by light-duty conditions.
- Composition: Base Oil Group II, Additives: Anti Corrosion Compound (10 to 40%), Demulsifier (5 to 15%)

H) Pneumatic Tools

47) Non Inhibited Percussive Pneumatic Tool Oil

- ISO Designation: ISO-L-PAA
- ISO Viscosity Grades: 32,46,68,100,150,220
- Performance Standards: ISO 6743-11:1990



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- Usage Guidelines: Tools operating at low load, and without condensate present in the air, used in Chipping Hammers, Needle Scalars, Air Hammers, Scaling Hammers, Clay Diggers, Rock Drills, Paving Breakers/ Jack Hammers, Rivet Busters, Air Scribes, Crust Breakers, Roto Hammers, Sand Rammer.
- Composition: Base Oil Group II, Additives: None

48) Anti Wear Percussive Pneumatic Tool Oil

- ISO Designation: ISO-L-PAB
- ISO Viscosity Grades: 32,46,68,100,150,220
- Performance Standards: ISO 6743-11:1990
- Usage Guidelines: Tools operating at high load with condensate present in the air, used in Chipping Hammers, Needle Scalars, Air Hammers, Scaling Hammers, Clay Diggers, Paving Breakers/ Jack Hammers, Rivet Busters, Air Scribes, Crust Breakers, Roto Hammers, Sand Rammer, Rock Drills
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), AW Additives (0.4 to 2%), EP Additives (0.4 to 2%), Anti Foam (0.1 to 1%)

49) Emulsifiable AW Percussive Pneumatic Tool Oil

- ISO Designation: ISO-L-PAC
- ISO Viscosity Grades: 32
- Performance Standards: ISO 6743-11:1990
- Usage Guidelines: Tools subject to extended service cycles, operating under moderate to severe load conditions and with condensate present in the air, used in Chipping Hammers, Needle Scalars, Air Hammers, Scaling Hammers, Clay Diggers, Paving Breakers/ Jack Hammers,



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Rivet Busters, Air Scribes, Crust Breakers, Roto Hammers, Sand Rammer, Rock Drills

- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), AW Additives (0.4 to 2%), EP Additives (0.4 to 2%), Anti Foam (0.1 to 1%), Anionic & Nonionic Emulsifiers (5 to 15%)

50) Non Inhibited Rotary Pneumatic Tool Oil

- ISO Designation: ISO-L-PBA
- ISO Viscosity Grades: 32,46,68,100,150,220
- Performance Standards: ISO 6743-11:1990
- Usage Guidelines: Tools operating at low load, and without condensate present in the air, used in Impact Wrenches, Ratchets Drills, Grinders, Sanders, Pneumatic Drills, Jack Hammers, Pneumatic Wrenches, Sanding Machines, Riveters, Rotary Actuators
- Composition: Base Oil Group II, Additives: None

51) Anti Wear Rotary Pneumatic Tool Oil

- ISO Designation: ISO-L-PBB
- ISO Viscosity Grades: 32,46,68,100,150,220
- Performance Standards: ISO 6743-11:1990
- Usage Guidelines: Tools operating under low to moderate load conditions and with condensate present in the air , used in Impact Wrenches, Ratchets, Drills, Grinders, Sanders, Pneumatic Drills, Jack Hammers, Pneumatic Wrenches, Sanding Machines, Riveters, Rotary Actuators
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), AW Additives (0.4 to 2%), EP Additives (0.4 to 2%), Anti Foam (0.1 to 1%)



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52) Emulsifiable AW Rotary Pneumatic Tool Oil

- ISO Designation: ISO-L-PBC
- ISO Viscosity Grades: 32
- Performance Standards: ISO 6743-11:1990
- Usage Guidelines: Tools subject to extended service cycles, operating under moderate to severe load conditions and with condensate present in the air, used in Impact Wrenches, Ratchets, Drills, Grinders, Sanders, Pneumatic Drills, Jack Hammers, Pneumatic Wrenches, Sanding Machines, Riveters, Rotary Actuators
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), AW Additives (0.4 to 2%), Anionic & Nonionic Emulsifiers (5 to 15%), Anti Foam (0.1 to 1%)

I) Heat Treatment

53) General Purpose Quenching Oil

- ISO Designation: ISO-L-UHC
- ISO Viscosity Grades: 10,32,68
- Performance Standards: ISO 6743-14:1994, IS 2264: 1980 Type A
- Usage Guidelines: Oils for normal hardening, for temperatures less than 130°C
- Composition: Base Oil Group II, Additives: None

54) Cold Quenching Oil

- ISO Designation: ISO-L-UHD
- ISO Viscosity Grades: 10,32,68
- Performance Standards: ISO 6743-14:1994, IS 2264: 1980 Type C



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- Usage Guidelines: Oils for fast hardening, for temperatures less than 130°C to harden uniformly with minimum cracking and distortions and constant predictable cooling rates
- Composition: Base Oil Group II, Additives: Quenching Oil Additive (1 to 10%)

55) Hot Quenching Oil

- ISO Designation: ISO-L-UHF
- ISO Viscosity Grades: 10,32,68
- Performance Standards: ISO 6743-14:1994, IS 2264: 1980 Type C
- Usage Guidelines: Oils for fast hardening, for temperatures less than 200°C to harden uniformly with minimum cracking and distortions and constant predictable cooling rates
- Composition: Base Oil Group II, Additives: Quenching Oil Additive (1 to 10%)

J) Heat Transfer Fluid (Thermic Fluid)

56) Heat Transfer Fluid (Thermic Fluid)

- ISO Designation: ISO-L-QA
- ISO Viscosity Grades: 32
- Performance Standards: ISO 6743-12:1989, IS 14745: 1999 (TF Medium)
- Usage Guidelines: Open oil containers for heating of mechanical or electrical components, open circuit, max measured temperature < 250°C
- Composition: Base Oil Group II, Additives: Thermic Fluid Additive (1 to 10%)



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K) Transformers

57) Transformer Oil (Insulating Oil)

- IS Designation: Type 1: Uninhibited
- ISO Viscosity Grades: 10
- Performance Standards: IS 335: 2018 Type 1 Uninhibited, IEC 60296: 2012 Type B Uninhibited
- Usage Guidelines: to be used as an electrical insulation medium in oil filled transformers and similar electrical equipment in which oil is required as an insulant and for heat transfer
- Composition: Base Oil Group II, Additives: None

L) Automotive Gears

58) Automotive EP Gear Oil GL-4

- SAE Gear Viscosity Grades: 90,140
- Performance Standards: IS 1118: 1992 EP Type GL-4, API GL-4, US MIL-L-2105
- Usage Guidelines: for both old and new generation vehicles including spiral, bevel, worm and synchromesh manual gears and transmission systems, improves efficiency of transmissions and axles under moderate to severe load and pressure conditions
- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)

59) Multigrade EP Gear Oil GL-4

- SAE Gear Viscosity Grades: 80W90, 85W140
- Performance Standards: IS 1118: 1992 EP Type GL-4, API GL-4, US MIL-L-2105



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- Usage Guidelines: for both old and new generation vehicles including spiral, bevel, worm and synchromesh manual gears and transmission systems, improves efficiency of transmissions and axles under moderate to severe load and pressure conditions
- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)

60) Automotive EP Gear Oil GL-5

- SAE Gear Viscosity Grades: 90, 140
- Performance Standards: IS 1118: 1992 EP Type GL-5, API GL-5, API MT-1, US MIL-L-2105D, MIL-PRF-2105E
- Usage Guidelines: for wide range of commercial fleet, mechanical transmissions, gear boxes and axles, especially in very demanding operation conditions, recommended for hypoid and bevel gears in rear axles of vehicles and gear boxes
- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)

61) Multigrade EP Gear Oil GL-4

- SAE Gear Viscosity Grades: 80W90, 85W140
- Performance Standards: IS 1118: 1992 EP Type GL-5, API GL-5, API MT-1, US MIL-L-2105D, MIL-PRF-2105E
- Usage Guidelines: for wide range of commercial fleet, mechanical transmissions, gear boxes and axles, especially in very demanding operation conditions, recommended for hypoid and bevel gears in rear axles of vehicles and gear boxes
- Composition: Base Oil Group II, Additives: Gear Oil Additive Package (0.4 to 4%)



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M) Automatic Transmissions

62) Automatic Transmission Fluid TASA

- SAE Crankcase Viscosity Grades: 10W
- Performance Standards: General Motor's automatic transmission fluid Type 'A' Suffix 'A' (TASA)
- Usage Guidelines: for light vehicles that have modern automatic transmission and power steering units
- Composition: Base Oil Group II, Additives: Automatic Transmission Fluid Additive Package (3 to 15%), Pour Point Depressant (0.4 to 2%), Red Colour (0.01 to 0.1%)

63) Automatic Transmission Fluid DEX II-D

- SAE Crankcase Viscosity Grades: 10W
- Performance Standards: General Motor's automatic transmission fluid DEXRON II-D
- Usage Guidelines: superior quality transmission and power steering oil for modern automatic transmissions, ideal for transmission systems, power steering and hydraulic fluid applications
- Composition: Base Oil Group II, Additives: Automatic Transmission Fluid Additive Package (3 to 15%), Pour Point Depressant (0.4 to 2%), Red Colour (0.01 to 0.1%)

64) Automatic Transmission Fluid DEX III-E

- SAE Crankcase Viscosity Grades: 10W
- Performance Standards: General Motor's automatic transmission fluid DEXRON III-E, ZF TE-ML 09, Voith 55.6335, MB 236.1, MB 236.5



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- Usage Guidelines: superior quality transmission and power steering oil, ideal for automatic transmission systems, power steering, hydraulic systems and torque converters.
- Composition: Base Oil Group II, Additives: Automatic Transmission Fluid Additive Package (3 to 15%), Pour Point Depressant (0.4 to 2%), Red Colour (0.01 to 0.1%)

65) Construction Equipment Oil TO-2

- SAE Crankcase Viscosity Grades: 10W, 30
- Performance Standards: Caterpillar TO-2
- Usage Guidelines: for smooth operation of heavy duty and static hydraulic machines and equipment like bulldozers, excavators, diggers, cranes, forklifts, power press, etc.
- Composition: Base Oil Group II, Additives: Automatic Transmission Fluid Additive Package (3 to 15%), Pour Point Depressant (0.4 to 2%)
[only in 10W]

66) Hydraulic Transmission Fluid TO-2, C-4

- SAE Crankcase Viscosity Grades: 10W, 30
- Performance Standards: Type C-4 of Allison Transmission Division of General Motors, Caterpillar TO-2
- Usage Guidelines: heavy duty automatic transmission oils, specially developed for on and off-highway requirements including earth-moving machinery
- Composition: Base Oil Group II, Additives: Automatic Transmission Fluid Additive Package (3 to 15%), Pour Point Depressant (0.4 to 2%)
[only in 10W]



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67) Power Shift Transmission Fluid TO-4, C-4

- SAE Crankcase Viscosity Grades: 10W, 30
- Performance Standards: Caterpillar TO-4, Allison C-4, ZF TE-ML 09, Voith 55.6335, MB 236.1, MB 236.5
- Usage Guidelines: for the new Caterpillar TO-4 power shift transmission, friction devices, clutches, brakes, train equipment like final drives, differentials and bevel gears, also suitable for older Caterpillar equipment and off-highway equipment with power shift transmission for hydraulically applied internal clutches.
- Composition: Base Oil Group II, Additives: Automatic Transmission Fluid Additive Package (3 to 15%), Pour Point Depressant (0.4 to 2%) [only in 10W]

N) Internal Combustion Engines

68) Engine Oil CD

- SAE Crankcase Viscosity Grades: 40,50
- Performance Standards: API CD
- Usage Guidelines: for slow and medium speed naturally aspirated and turbocharged DG Sets
- Composition: Base Oil Group II, Additives: Multipurpose Engine Oil Additive Package (3 to 10%), Red Colour (0.01 to 0.1 %)

69) Engine Oil CF

- SAE Crankcase Viscosity Grades: 30,40
- Performance Standards: API CF, Caterpillar Series 3, US-MIL-L2104C, Mack T-7 & T-8A test, IS 1356: 2014 EDL 3
- Usage Guidelines: for Off Highway Construction and Earth Moving Equipment, Heavy Duty Commercial Vehicles, LCVs, MUVs, Tractors, 3 Wheelers



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- Composition: Base Oil Group II, Additives: Multipurpose Engine Oil Additive Package (3 to 10%), Red Colour (0.01 to 0.1 %)

70) Engine Oil CF-4

- SAE Crankcase Viscosity Grades: 15W40, 20W40
- Performance Standards: API CF-4, MB 228.1
- Usage Guidelines: for Off Highway Construction and Earth Moving Equipment, Heavy Duty Trucks, Buses, LCVs, SUVs, MUVs, Tractors, 3 Wheelers
- Composition: Base Oil Group II, Additives: Multipurpose Engine Oil Additive Package (3 to 10%), Red Colour (0.01 to 0.1 %) (only in SAE 20W-40), Pour Point Depressant (0.4 to 2%)

O) Diesel Engines

71) Diesel Engine Oil CH-4

- SAE Crankcase Viscosity Grades: 15W40
- Performance Standards: API CH-4
- Usage Guidelines: for Off Highway Construction and Earth Moving Equipment, Heavy Duty Trucks, Buses, LCVs, SUVs, MUVs, Tractors, 3 Wheelers
- Composition: Base Oil Group II, Additives: Diesel Engine Oil Additive Package (10 to 25%), Pour Point Depressant (0.4 to 2%)

72) Diesel Engine Oil CI-4

- SAE Crankcase Viscosity Grades: 15W40, 10W30
- Performance Standards: API CI-4, JASO DH1, KES 07.851
- Usage Guidelines: for Off Highway Construction and Earth Moving Equipment, Heavy Duty Trucks, Buses, LCVs, SUVs, MUVs, Tractors



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- Composition: Base Oil Group II, Additives: Diesel Engine Oil Additive Package (10 to 25%), Pour Point Depressant (0.4 to 2%)

73) Diesel Engine Oil CI-4+

- SAE Crankcase Viscosity Grades: 15W40, 10W30
- Performance Standards: API CI-4+, VDS-3, Global DHD-1, Cummins 20078, ACEA E7, MB 228.3, MAN M3275, MTU Type II Quality, Volvo VDS-3, Mack EO-M Plus
- Usage Guidelines: for Off Highway Construction and Earth Moving Equipment, Heavy Duty Trucks, Buses, LCVs, SUVs, MUVs
- Composition: Base Oil Group II, Additives: Diesel Engine Oil Additive Package (10 to 25%), Pour Point Depressant (0.4 to 2%)

74) Diesel Engine Oil CK-4

- SAE Crankcase Viscosity Grades: 15W40, 10W30
- Performance Standards: API CK-4, ACEA E9, MB 228.31, Volvo VDS 4.5, Cummins 20086, Caterpillar ECF 3, Mack EOS 4.5, Renault RLD 4
- Usage Guidelines: new generation Off Highway Construction and Earth Moving Equipment, Heavy Duty Trucks, Buses, LCVs, SUVs, MUVs, meet stringent lubrication requirements of the modern BS VI heavy duty diesel engines
- Composition: Base Oil Group II, Additives: Diesel Engine Oil Additive Package (10 to 25%), Pour Point Depressant (0.4 to 2%)



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P) Greases

75) Red Gel Calcium AP 3 Grease

- ISO Designation: ISO-L-XBBHA 3
- Performance Standards: ISO-6743-9:2003, ISO 12924: 2023
- Symbol Explanation: X→ Grease, BB→ Operating Temperature Range: -20°C to 80°C, H→ provides safety water contamination even in open environment i.e. dynamic humidity along with medium level of rust protection, A→ No EP Properties; Drop Point: 130°C
- Composition: Base Oil Group I, Thickener: Calcium Stearate (10 to 20%), Additives: None

76) RPO Lithium AP 3 Grease

- ISO Designation: ISO-L-XBDHA 3
- Performance Standards: ISO-6743-9:2003, ISO 12924: 2023
- Symbol Explanation: X→ Grease, BD→ Operating Temperature Range: -15°C to 140°C, H→ provides safety water contamination even in open environment i.e. dynamic humidity along with medium level of rust protection, A→ No EP Properties; Drop Point: 190°C
- Composition: Base Oil Group I, Rubber Process Oil; Thickener: Lithium Stearate (10 to 20%); Additives: None

77) Red Gel Lithium EP 3 Grease

- ISO Designation: ISO-L-XCDEB 3
- Performance Standards: ISO-6743-9:2003, ISO 12924: 2023
- Symbol Explanation: X→ Grease, CD→ Operating Temperature Range: -30°C to 140°C, E→ provides safety against water contamination in closed environment i.e. static humidity along with medium level of rust protection, B→ EP Properties; Drop Point: 200°C
- Composition: Base Oil Group I; Thickener: Lithium Stearate (10 to 20%); Additives: EP Additives (0.4 to 2%)



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