SAE 30 is a monograde oil formulated with new paraffin bases for the lubrication of atmospheric 4-stroke petrol or diesel engines of small equipment operating under normal conditions (e.g. lawnmowers).

API SE/CC | CCMC G1/D1 | MIL.L. 2104 B

**Technical data**

- Viscosity at 40°C (cSt) : 100
- Viscosity at 100°C (cSt) : 11.3
- Viscosity index : 98
- Density at 20°C : 0.885

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
XT5 TURBO 20W50

4 stroke motor oil

High quality oil formulated for petrol and diesel engines of passenger cars and trucks. Its viscosity at high temperature guarantees an excellent lubrication for engines with turbo operating in severe conditions and in urban area as well as on motorway.

It is compatible with catalytic converters.

API SL / CF / CG4 | ACEA A3 / B3 / E2
Performance level : VW 505.00 / 501.01 | MB 229.1 / 228.1

Additives with low ash level
Good detergent and dispersant properties.

Protection against varnishing and gumming at high temperature, deposits and sludge formation, oil shear due to speeds of rotation, wear of triggers and nose of cams

Technical data

- Viscosity at 40°C (cSt) : 178
- Viscosity at 100°C (cSt) : 19.4
- Viscosity index : 120
- Density at 20°C : 0.888
- Viscosity at -15°C (cP) : 9000

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
High Performance oil formulated for transport applications in diesel engines, including turbo-charged.

It is recommended for modern fleet driving in motorway, urban area or operating on site. It is well suitable for turbo-charged diesel engines (vehicles manufactured after 1983) operating at low speed and heavy loaded.

Grade particularly suitable for hot climatic conditions

High Total Base Number
Extended drain intervals.

Antiwear and detergent properties
Polish protection
Sludge avoided.

Excellent viscosity-temperature behaviour
Complete safety.

Technical data
Viscosity at 40°C (cSt) : 164
Viscosity at 100°C (cSt) : 18.5
Viscosity at -15°C (cP) : 9000
Viscosity index : 125
Density at 20°C : 0.888

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
MULTI 20W50 TURBO is a mineral multigrade engine oil suitable for petrol or diesel passenger cars, with or without turbo charging, for prolonged motorway driving as well as stop-start run.

It is compatible with engines equipped with catalytic converters or using unleaded petrol, miscible with all standard engine oils and suitable all year round.

API SG / CE | MILL. 46152E | CCMC G4 / D4 / PD2
Performance level : MB 227.5 | VW 505.00 / 501.01

High performance additives
Excellent temperature stability
Antiwear, detergent and dispersant properties.

Engine better cleaned

Oil consumption reduction

Technological data
Viscosity at 40°C (cSt) : 150
Viscosity at 100°C (cSt) : 17.9
Viscosity index : 130
Density at 20°C : 0.887
Viscosity at -15°C (cP) : 9000

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
SUPER TURBO 15W40 is a high quality mineral engine oil suitable for petrol or diesel passenger cars with or without turbo charging. It is designed for: prolonged driving at high speed, urban run/stop and go...

It is perfectly suitable for use all year round. It is completely miscible with all standard engine oils.

<table>
<thead>
<tr>
<th>API SL / CF</th>
<th>ACEA A3 / B3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance level : VW 505.00 / 501.01</td>
<td>MB 229.1</td>
</tr>
</tbody>
</table>

High viscosity
Good thermic stability.

«New generation» additives
Use with lead-free petrol possible.

Multigrade properties
Easy start up at low temperature
High safety potential at high temperature.

Technical data
Viscosity at 40°C (cSt) : 104
Viscosity at 100°C (cSt) : 14.2
Viscosity index : 139
Density at 20°C : 0.880
Viscosity at -20°C (cP) : 6500

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
This high quality oil is developed for engines of all petrol or diesel passenger cars, turbo-charged or not. It is also designed for motorcycle engines operating in severe conditions.

The wide viscosity range of this lubricant guarantees full protection of the engines all year round for use in urban area as well as for long motorway driving.

### Technical data

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity at 40°C (cSt)</td>
<td>135</td>
</tr>
<tr>
<td>Viscosity at 100°C (cSt)</td>
<td>18</td>
</tr>
<tr>
<td>Viscosity index</td>
<td>145</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>0.882</td>
</tr>
<tr>
<td>Viscosity at -20°C (cP)</td>
<td>6800</td>
</tr>
</tbody>
</table>

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
High performance engine oil developed for petrol and diesel passenger cars with turbo-charger as well as for trucks, agricultural and civil engineering equipment.

**API CG4 / CF / SL | ACEA E2 / B3 / A3**

**Performance level :** MB 228.1 / 229.1 | VOLVO VDS | MAN 270 / 271 | VW 501.01 / 505.00 | ALLISON C4 | CAT. T02 | MTU DDC Type 2 | MACK E0/L

Dispersant, detergent and antiwear additives
Engine better cleaned
Extended drain intervals for heavy trucks (20000 to 30000 kms according to the service).

Technical data
- Viscosity at 40°C (cSt) : 104
- Viscosity at 100°C (cSt) : 14.2
- Viscosity index : 139
- Density : 0.882
- Viscosity at -20°C (cP) : 6500

The given data are typical data.

4 stroke motor oil

ZT1 MULTI 15W40

Mineral

**Viscosity at 40°C (cSt) :** 104

**Viscosity at 100°C (cSt) :** 14.2

**Viscosity index :** 139

**Density :** 0.882

**Viscosity at -20°C (cP) :** 6500

**The given data are typical data.**

*Please regularly check that you have the latest up-to-date technical data sheet.
High quality semi-synthetic oil formulated for diesel engines of lorries and civil engineering and agricultural equipments, including turbo-charged, and meeting the most severe conditions.

API CI4 / SL | ACEA E7 / B4 | MAN 3275 | VOLVO VDS 3
RENAULT RLD 2 | CATERPILLAR ECF/2
MB 228.3 | CUMMINS CES 20078
MACK E0/M PLUS

Dispersant, detergent and antiwear additives
Engine better cleaned
Extended drain intervals for heavy trucks (40000 to 60000 kms according to the service).

Low viscosity at low temperature
Oil consumption reduced for passengers cars.

Especially developed for mixed fleet
Easier inventory control.

Technical data
Viscosity at 40°C (cSt) : 100
Viscosity at 100°C (cSt) : 14
Viscosity index : 150
Density : 0.872
Viscosity at -25°C (cP) : 6500

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
ZT5 10W40 is a synthetic-based oil developed for 4 stroke diesel engines working under heavy load and more especially for new engines EURO 4.

- **API CI4 | ACEA E4 / E7-08 | MB 228.5**
- **MAN 3275 - 3277 | SCANIA LDF-2 | VOLVO VDS 3**
- **MTU DDC TYPE 3 | RENAULT TRUCK RXD/RLD-2 | MACK E0-M PLUS**
- **CUMMINS CES 20077-20078 | DAF EXTENDED DRAINS**

**Technical data**
- Viscosity at 40°C (cSt): 90.3
- Viscosity at 100°C (cSt): 13.6
- Viscosity index: 152
- Density: 0.882
- Viscosity at -25°C (cP): 6500

Recommended for trucks, civil engineering and agricultural equipements, when oil quality is defined by the above specifications.

Low viscosity at low temperature
Fuel consumption reduction.

«New generation» additives
Very long drain intervals (90000 to 120000 kms according to the service).

*Please regularly check that you have the latest up-to-date technical data sheet.*
**ZF 10W40**

4 stroke motor oil

Fully synthetic lubricant formulated for **hardly charged diesel 4-stroke engines**. Particularly recommended for engines requiring **EURO IV / V specifications** and equipped with **EGR** (Exhaust Gas Recirculation) with or without **particulate filters** or with a **system of reduction of Nitrogen Oxides** (Selective Catalyst Reduction technology).

- **SAE 10W40**
- **ACEA E4/E6/E7**
- **D.B. 228.5/228.51**
- **MAN 3477/3277**
- **MAN MTU Type3/Type 3.1**
- **RENAULT RVI RXD**
- **VOLVO VDS-3**

«Low SAPS» oil

Limited content in sulphated ash, sulfur and phosphor

Longevity of those new systems improved.

«New generation» additives

Very long drain intervals.

Low viscosity at low temperature

Fuel economy.

**Technical data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity at 40°C (cSt)</td>
<td>90.3</td>
</tr>
<tr>
<td>Viscosity at 100°C (cSt)</td>
<td>13.6</td>
</tr>
<tr>
<td>Viscosity index</td>
<td>152</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>0.882</td>
</tr>
<tr>
<td>Dynamic viscosity at -25°C (cP)</td>
<td>6500</td>
</tr>
</tbody>
</table>

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Detergent monograde oil used in certain small piston compressors and in hydraulic circuits.

API CE | CCMC D4 | MIL-L 2104E
Performance level : ALLISON C4 | MB 227.0

Detergent and dispersant properties
Protection of all mechanism parts guaranteed.

Recommended by some manufacturers to use it in gearboxes

Technical data
Viscosity at 40°C (cSt) : 43
Viscosity at 100°C (cSt) : 6.6
Viscosity index : 107
Density at 20°C : 0.879

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
DET D3 2104E is a high performance monograde oil especially formulated for diesel engine, including turbo charged, operating under severe conditions. It is well suitable for trucks, plant and agricultural equipment requiring monograde oils and working at any speed and with any charge.

**Technical data**
- Viscosity at 40°C (cSt) : 100
- Viscosity at 100°C (cSt) : 11.7
- Viscosity index : 101
- Density at 20°C : 0.890

The given data are typical data.

*Detergent and dispersant properties*
- Engine better cleaned
- Engine life extended.

Recommended by some manufacturers to use it in gearboxes, hydraulic circuits and compressors.

*Please regularly check that you have the latest up-to-date technical data sheet.*
DET D3 40 2104 E

DET D3 2104E is a high performance monograde oil especially formulated for diesel engine, including turbo charged, operating under severe conditions. It is well suitable for trucks, plant and agricultural equipment requiring monograde oils and working at any speed and with any charge.

Detergent and dispersant properties
Engine better cleaned
Engine life extended.

Recommended by some manufacturers to use it in gearboxes, hydraulic circuits or compressor

Technical data
Viscosity at 40°C (cSt) : 150
Viscosity at 100°C (cSt) : 14.9
Viscosity index : 99
Density at 20°C : 0.896

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
ZT3 MULTI 15W40 SHPD is a very high performance oil developed for diesel engines, of lorries and civil engineering equipments, including turbo-charged, and meeting the most severe conditions.

It is particularly recommended for modern fleet driving in motorway, urban area or operating on site. It is well suitable for turbo-charged diesel engines (vehicles manufactured after 1983) operating at low speed and heavy loaded.

API CI4 / SL | ACEA E7 / B4 | MAN 3275 | VOLVO VDS 3
RENAULT RLD 2 | CATERPILLAR ECF/2
MB 228.3 | CUMMINS CES 20078
MACK E0/M PLUS

High Total Base Number
Extended drain intervals (60000 Kms).

Antiwear and detergent properties
Polish protection
Sludge avoided.

Excellent viscosity - temperature behaviour
Complete safety.

Technical data
Viscosity at 40°C (cSt) : 105
Viscosity at 100°C (cSt) : 14
Viscosity index : 139
Density at 20°C : 0.882
Viscosity at -20°C (cP) : 6500

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Mineral oil for gearboxes, differentials, rear axles, steering gears and all loaded gears where the manufacturers require API GL4 standard and SAE 80W viscosity grade.

Recommended for manual synchronized gearboxes

Technical data
- Viscosity at 40°C (cSt) : 97
- Viscosity at 100°C (cSt) : 11.2
- Viscosity index : 98
- Density at 20°C : 0.888

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Mineral oil for gearboxes, differentials, rear axles, steering gears and all loaded gears where the manufacturers require API GL4 standard and SAE 90 viscosity grade.

**Technical data**

- Viscosity at 40°C (cSt) : 172
- Viscosity at 100°C (cSt) : 15.9
- Viscosity index : 95
- Density at 20°C : 0.890

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Gear oil for hypoid axles and all loaded gears where the manufacturers require API GL4 standard and SAE 140 viscosity grade.

**Technical data**

- Viscosity at 40°C (cSt): 414
- Viscosity at 100°C (cSt): 29
- Viscosity index: 97
- Density at 20°C: 0.905

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
SYNCHRO 75W90 TDL

Fully synthetic oil for manual gearbox and axle, especially developed to meet the manufacturers and car drivers requirements.

Technical data

Viscosity at 40°C (cSt) : 75
Viscosity at 100°C (cSt) : 14
Viscosity index : 190
Density at 20°C : 0.879

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
High performance oil especially developed for axles and differentials with limited slip. This lubricant is suitable for limited slip differentials of passenger car, construction machines and agricultural tractors.

It can also be used for the lubrication of manual gearboxes where a GL5 oil is required.

**API GL5 | MIL-L 2105D | ZF TE-ML 05D/12C | FORD M2C 104A**

**Technical data**
- Viscosity at 40°C (cSt) : 194
- Viscosity at 100°C (cSt) : 16.9
- Viscosity index : 91
- Density at 20°C : 0.902

The given data are typical data.

---

*Please regularly check that you have the latest up-to-date technical data sheet.*
Extreme pressure multigrade oil for transmissions, gearboxes, hypoid axles and reductions of vehicles and civil engineering equipment operating under severe conditions.

GX MULTI 80W90 is developed for gearboxes, differentials, final drives where API GL5 standard is required. For differentials and axles with limited slip, manufacturers generally recommend gear oil with friction modifying additives (we recommend then to use GX 90 LS).

**Technical data**

- **Viscosity at 40°C (cSt)**: 158
- **Viscosity at 100°C (cSt)**: 15.4
- **Viscosity index**: 98
- **Density at 20°C**: 0.897

*The given data are typical data.*

**Good viscosity index**

Efficient lubrication of the bearings in cold weather

Wear protection at high temperature.

**Antifoaming properties**

Oil consumption and cavitation problems in pumps reduced.

**Extreme pressure additives**

Formation of a resistant «lubricating film».

**Excellent oxidation stability**

Extended drains intervals.

---

*Please regularly check that you have the latest up-to-date technical data sheet.*
Extreme pressure multigrade oil for transmissions, hypoid axles and reductions of vehicles and civil engineering equipment operating under severe conditions.

**API GL5 | MIL-L. 2105D | VOLVO 97310**

### Good viscosity index
Efficient lubrication of the bearings in cold weather
Wear protection at high temperature.

### Antifoaming properties
Oil consumption and cavitation problems in pumps reduced.

### Extreme pressure additives
Formation of a resistant «lubricating film».

### Excellent oxidation stability
Extended drains intervals.

### Technical data
- Viscosity at 40°C (cSt) : 410
- Viscosity at 100°C (cSt) : 29
- Viscosity index : 97
- Density at 20°C : 0.908

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Multi purpose oil developed for the lubrication of all major tractor components: engines, wet brakes, transmission and hydraulic systems.

Friction modifying additive
Jamming effects prevented.

Detergent, dispersant, anticorrosion and extreme pressure additives
Protection against varnishing, gumming and deposits formation
No damage of the gaskets.

Technical data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity at 40°C (cSt)</td>
<td>100</td>
</tr>
<tr>
<td>Viscosity at 100°C (cSt)</td>
<td>13.6</td>
</tr>
<tr>
<td>Viscosity index</td>
<td>134</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>0.887</td>
</tr>
<tr>
<td>Viscosity at -20°C (cP)</td>
<td>6500</td>
</tr>
</tbody>
</table>

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
High performance multi purpose oil developed for the lubrication of all major components of tractors and civil engineering equipment: engines, wet brakes, transmission and hydraulic systems.

It can also lubricates fixed compressors in building sites.

**Technical data**

- Viscosity at 40°C (cSt) : 88.5
- Viscosity at 100°C (cSt) : 13.5
- Viscosity index : 154
- Density at 20°C : 0.871
- Viscosity at -25°C (cP) : 6500

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Up-market lubricant for automatic transmissions of vehicles for which a fluid of type DEXRON is advocated.

This red-coloured fluid, providing better performance than the ATF type A suffix A, can also be used in raising systems, power-steerings, suspensions, and some mechanical gearboxes.

Torque converter
- High viscosity index (easy start up at low temperature)
- High resistance to oxidation (chemical stability throughout time)
- Important protection against rust, deposit, wear, foam in order to avoid an obstruction of the feeder pipes.

Gearbox
- Extreme pressure properties to limit wear
- Very good friction properties to avoid slipping and hiccough when engaging the clutch
- Perfect compatibility with elastomers
- Detergent and dispersant properties to avoid the formation of deposits.

Technical data
- Colour: red
- Viscosity at 40°C (cSt): 36.7
- Viscosity at 100°C (cSt): 7.2
- Viscosity index: 168
- Density at 20°C: 0.869

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
High performance lubricant especially formulated to meet the requirements of users of agricultural machinery and construction equipment.

**Technical data**
- **Density at 20°C**: 0.885
- **Viscosity at 40°C (cSt)**: 62.0
- **Viscosity at 100°C (cSt)**: 10.0
- **Viscosity index**: 150
- **Viscosity at -25°C (cP)**: 6800

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
High performance lubricant especially formulated to meet the requirements of RENAULT and FIAT tractors.

This oil is developed for the lubrication of all hydraulic and mechanical transmissions as well as clutches and wet brakes.

**Technical data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity at 40°C (cSt)</td>
<td>93.4</td>
</tr>
<tr>
<td>Viscosity at 100°C (cSt)</td>
<td>12.2</td>
</tr>
<tr>
<td>Viscosity index</td>
<td>124</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>0.891</td>
</tr>
</tbody>
</table>

The given data are typical data.

**Antifoaming properties**

Cavitation problem in hydraulic pumps prevented.

**“Extreme pressure” additive**

Protection against micro-welds and metal wrenching.

**Friction modifying additive**

Constant brake of wet brakes and clutches without noise or jerks ensured.

*Please regularly check that you have the latest up-to-date technical data sheet.*
High quality lubricant developed for automatic transmissions where a DEXRON III type fluid is required.

It can also be used in place of DEXRON II fluids.


- **New generation** additives
  - High resistance to oxidation.

- **Antiwear properties**
  - Transmission life extended.

**Technical data**
- Color: red
- Viscosity at 40°C (cSt): 35.8
- Viscosity at 100°C (cSt): 8.0
- Viscosity index: 200
- Density at 20°C: 0.859

The given data are typical data.

---

*Please regularly check that you have the latest up-to-date technical data sheet.*
High quality universal transmission oil especially developed for plant equipment. It ensures the lubrication of gearboxes, clutches, wet brakes, final drives.

Friction and antiwear properties
Components damage prevented, equipment life extended.

Good compatibility with elastomer and resins
Breakdown, failures and excessive noise reduced.

High stability in the time
Perfect working guaranteed, clutch slip under heavy load prevented.

Technical data
- Density at 20°C : 0.895
- Viscosity at 40°C (cSt) : 100
- Viscosity at 100°C (cSt) : 11.3
- Viscosity index : 98

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
ACCOFLUID is an hydraulic oil and shows excellent performance. It has a broad range of application throughout the industry.

This oil can also be used for compressors: ALTAS COPCO : GA - XA - PR ; COMPAIR LUCHARD BROOMWADE : ROTOTAIR - RA - RX ; HOLMAN FIG : CR - RO - ZITAIR ; MANNESMAN DEZAG : SE - SC - SZ

Performance additives
Oxidation resistance, protection against corrosion, demulsibility and resistance to foaming improved.

Antiwear properties
Long lasting use.

Neutral towards elastomers used in industry

Compatible with silver-plated or bronze elements

Technical data
Viscosity at 40°C (cSt) : 32
Viscosity at 100°C (cSt) : 5.5
Viscosity index : 100
Density at 20°C : 0.867
Pour point (°C) : -30

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
ACCOFLUID is an hydraulic oil and shows excellent performance. It has a broad range of application throughout the industry.

AFNOR NFE 48603 : HM | DIN 51524-2 : HLP | ISO 3498 : VG 46

Performance additives
- Oxidation resistance, protection against corrosion, demulsibility and resistance to foaming improved.

Antwear properties
- Long lasting use.

Neutral towards elastomers used in industry

Compatible with silver-plated or bronze elements

Technical data
- Viscosity at 40°C (cSt) : 46
- Viscosity at 100°C (cSt) : 7.0
- Viscosity index : 100
- Density at 20°C : 0.870
- Pour point (°C) : -25

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
Mineral oil with excellent performance that can be used in all hydraulic systems, stages and precision mechanisms functioning at high pressure and high temperature when an «extreme pressure» oil is not required.

**Performance additives**
Oxidation resistance, protection against corrosion, demulsibility and resistance to foaming improved.

**Antiseize properties**
Long lasting use (3000 to 20000 hours according to operating conditions)

**Neutral towards elastomers used in industry**

**Compatible with silver-plated or bronze elements**

**Technical data**
- Viscosity at 40°C (cSt): 100
- Viscosity at 100°C (cSt): 11.0
- Viscosity index: 100
- Density at 20°C: 0.873
- Pour point (°C): -20

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
ACCOFLUID is an hydraulic oil and shows excellent performance. It has a broad range of application throughout the industry.

This oil can also be used for vacuum pumps: ALFA-LAVAL type ALB oil

AFNOR NFE 48603 : HM | DIN 51524 - 2 : HLP | ISO 3498 : VG 68

Performance additives
Oxidation resistance, protection against corrosion, demulsibility and resistance to foaming improved.

Antiwear properties
Long lasting use.

Neutral towards elastomers used in industry

Compatible with silver-plated or bronze elements

Technical data
Viscosity at 40°C (cSt) : 68
Viscosity at 100°C (cSt) : 8.8
Viscosity index : 100
Density at 20°C : 0.873
Pour point (°C) : -20

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
ACCOFLUID T is a high quality hydraulic oil for use in all hydraulic systems on industrial machinery or on mobile plant (building site equipment, agricultural machinery, transport equipment).

It is especially recommended for hydraulic systems working outside at very different temperatures and meets the requirements of high pressure hydraulic systems.

Technical data

- Viscosity at 40°C (cSt) : 32
- Viscosity at 100°C (cSt) : 6.5
- Viscosity index : 150
- Pour point (°C) : -48
- Flash point : 190
- Density : 0.865

The given data are typical data.

AFNOR NFE 48603 : HV | DIN 51524-2 : HLP
DIN 51524-3 : HVLP | ISO 3498 : VG 32 | DENISON HF0

Good index of viscosity, good demulsibility and antifoaming quality

Good energy transmission.

Antiwear, anticorrosion, antioxidant and extreme pressure additives

Protection of the circuit elements.

Neutral towards elastomers used in industry

Compatible with silver-plated or bronze elements

*Please regularly check that you have the latest up-to-date technical data sheet.
ACCOFLUID T is a high quality hydraulic oil for use in all hydraulic systems on industrial machinery or on mobile plant (building site equipment, agricultural machinery, transport equipment).

It is especially recommended for hydraulic systems working outside at very different temperatures and meets the requirements of high pressure hydraulic systems.

**AFNOR NFE 48603 : HV**

**DIN 51524-2 : HLP**

**DIN 51524-3 : HVLP**

**ISO 3498 : VG 46**

**DENISON HF0**

Good index of viscosity, good demulsibility and antifoaming quality

Good energy transmission.

Antiwear, anticorrosion, antioxidant and extreme pressure additives

Protection of the circuit elements.

Neutral towards elastomers used in industry

Compatible with silver-plated or bronze elements

### Technical data

- Viscosity at 40°C (cSt) : 46
- Viscosity at 100°C (cSt) : 8.0
- Viscosity index : 150
- Pour point (°C) : -43
- Flash point : 210
- Density : 0.873

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
ACCOFLUID T is a high quality hydraulic oil for use in all hydraulic systems on industrial machinery or on mobile plant (building site equipment, agricultural machinery, transport equipment).

It is especially recommended for hydraulic systems working outside at very different temperatures and meets the requirements of high pressure hydraulic systems.

AFNOR NFE 48603 : HV  
DIN 51524-2 : HLP  
DIN 51524-3 : HVLP  
ISO 3498 : VG 68  
DENISON : HF0

Good index of viscosity, good demulsibility and antifoaming quality  
Good energy transmission.

Antiwear, anticorrosion, antioxidant and extreme pressure additives  
Protection of the circuit elements.

Neutral towards elastomers used in industry  
Compatible with silver-plated or bronze elements

**Technical data**

- Viscosity at 40°C (cSt) : 68
- Viscosity at 100°C (cSt) : 10.7
- Viscosity index : 150
- Pour point (°C) : -37
- Flash point : 220
- Density : 0.879

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Mineral oil recommended for the reciprocating air compressors of farm, building and garages equipment working under severe conditions and with final pressure about 15b.

DIN 51506 - VDL

Excellent thermic stability
Good protection at high temperature.

Oxidation resistance
Extended service life without modification of the oil characteristics.

Antirust additive

Reduction of deposits formation

Technical data
Viscosity at 40°C (cSt) : 101
Viscosity at 100°C (cSt) : 11.5
Viscosity index : 100
Density at 20°C : 0.887

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
COMPRESSEUR S100

Compressor oil

Semi-synthetic

Synthetic based oil developed for the lubrication of reciprocating air compressors.

DIN 51506 : VDL  |  ISO 6743/4A : L - DAC

Anticorrosion additives
Protection against corrosion due to condensation in compressors or circuits.

High viscosity
Very good thermal staility.

Protection against deposits formation under heat in compressor chamber

Demulsibility properties
Quick clarification of water.

Technical data
Viscosity at 40°C (cSt) : 100
Viscosity at 100°C (cSt) : 10.2
Density at 20°C : 0.877
Viscosity index : 70

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Mineral oil developed for the lubrication of all rotary, screw and vane type, air compressors when requiring the grade ISO 46.

It can also be used for the lubrication of the bearings of centrifugal compressors when the temperature does not exceed 60°C.

ISO VG 46 | DIN 51506 VDL

High performance additives
- Good air and water release
- Coke formation minimized
- Oxidation prevented.

Technical data
- Viscosity at 40°C (cSt) : 46
- Viscosity at 100°C (cSt) : 7.1
- Viscosity index : 105
- Density at 20°C: 0.869

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
Product especially developed to facilitate demoulding of concrete from metal or wooden moulds.

Type of use: usual works, bases, walls, floors, beams, frameworks, in plant or on site.

Covering power from 25 to 45 m² per litre (depending on the use, the application mode and the formwork nature)

No mixing or preparation beforehand

Direct application of paint or coatings on the cement after natural or heating drying

*Please regularly check that you have the latest up-to-date technical data sheet.
This grease, with a calcium soap base, is insoluble in water and has a good resistance to washing by water. It is suitable for the lubricating of numerous industrial equipments exploited in moderate conditions of temperature, speed and load.

Type of use: not very loaded bearings, articulations, sliding channel, bearing of water pump, assembly of adjusted components

**Technical data**
- Nature of the soap: calcium
- Colour: blond
- Penetration \( [\text{NF T 60-132}] (1/10\text{mm}) \): 270/300
- Solubility in water: insoluble
- Limit temperature of use (°C): -20 to +60
- Drop point [METTLER method] (°C): 105

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Grease

**Industrial grease** of high quality, for multiple uses, **insoluble in water**. It is adapted to equipment working under high temperature and heavy loads or subject to important extra load due to shocks. Suitable for smooth bearings, ball bearings, hubs of wheel, very loaded bearings...

**NLGI 3**

```latex
\begin{itemize}
  \item «Extreme pressure» additive
    Wear components in movement reduced.
  \item Very good resistance to oxidation
    Perfect quality in the time.
  \item Anticorrosion additive
\end{itemize}
```

**Technical data**

- Nature of the soap : lithium
- Color : amber | Appearance : smooth
- Penetration \( [NF\ T\ 60-132] (1/10mm) \): 220/250
- Corrosion Cu 3 h/100°C \( [ASTM\ D\ 4048] (b) \): 1
- Limit temperature of use \( (°C) \): -20 to +150
- EMCOR Test distilled water \( [NF\ T\ 60-135] \): 1
- 4 weld balls \( [ASTM\ D\ 2596] (Kg) \): 250
- 4 wear balls 1h/40kg \( [ASTM\ D\ 2266] (mm) \): 0.55
- Oxidation after 100 h \( [ASTM\ D\ 942] \) (psi) : < 7
- Wash out \( [ASTM\ D\ 1264] \) at 80°C (% weight) : < 4
- Wheel bearing \( [ASTM\ D\ 1263] \) at 105°C (g) : 1
- Drop point \( [METTLER\ method] \) \( (°C) \): 195

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
High quality lithium grease, for multiple uses, insoluble in water developed for equipment working under high temperature and heavy loads. It is suitable for the lubrication of: loaded bearings, ball bearings, gears, articulations, coupling, sliding channels, universal joints, water pumps, civil engineering equipment, ...

**Technical data**

**Nature of the soap:** lithium  
**Colour:** amber | **Appearance:** smooth  
**Penetration** \[NF T 60-132\]/(1/10 mm): 265/295  
**Corrosion Cu 3 h/100°C** \[ASTM D 4048\] (b): 1  
**Limit temperature of use** (°C): -20 to +140  
**EMCOR Test distilled water** \[NF T 60-135\]: 0  
**4 weld balls** \[ASTM D 2596\] (Kg): 250  
**4 wear balls 1h/40Kg** \[ASTM D 2266\] (mm): 0.55  
**Oxidation after 100h** \[ASTM D 942\] (psi): < 6  
**Wash out** \[ASTM D 1264\] at 80°C (% weight): < 4  
**Wheel bearing** \[ASTM D 1263\] at 105°C (g): 2  
**Drop point** \[METTLER method\] (°C): 195

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
Extreme pressure lithium grease for difficult lubricating and recommended for the lubrication of organs subject to repeated shocks or vibratory phenomenon requiring a very high quality lubrication with spaced out lubricating like ball-and-socket joints, articulations, fluted shafts.

**Grease**

**Extreme pressure**

Addition of molydenum disulphide (MOS2).

**Good resistance to oxidation**

Perfect quality in the time.

**Anticorrosion additives**

Protection of all mechanical elements.

**Perfect mechanical and thermic stability**

**Good adhesion**

**Good resistance to water**

**Technical data**

Nature of the soap: lithium

- Colour: black
- Appearance: smooth
- Penetration [NF T 60.132](1/10mm): 270 / 300
- Limit temperature of use (°C): -20 to +140
- Corrosion Cu 3 h/100°C [ASTM D 4048]: 1 b
- Oxidation after 100 h [ASTM D 942] (psi): 7.8
- EMCOR Test distilled water [NF T 60.135]: 1
- Wash out [ASTM D 1264] at 80°C: 3.9 % weight
- Wheel bearing [ASTM D 1263] at 105°C (g): 2
- 4 weld balls [ASTM D 2596] (Kg): 250
- 4 wear balls 1h/40 kg [ASTM D 2266] (mm): 0.55
- Drop point [METTLER method] (°C): 192

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
High quality calcium soap grease in aerosol spray. Suitable to grease all tools where access is difficult. This grease is reversible: if the temperature overtakes 150°C and provokes its fusion, it returns at its consistency and nearly normal appearance as soon as temperature drops under 150°C.

Suitable for lubrication: material in contacts with sea water; all low speed and heavy load bearings (500 to 6000 revs/mn); all joints, sliding channels.

**NLGI 2**

«Extreme pressure» additives
Wear components in movement reduced.

Water insoluble (boiling water, steam and sea water)
Good and long lubrication.

**Technical data**
Limit temperature of use (°C): -20 to +110
Drop point (°C): 150
Penetration [NF T 60-132] (1/10mm): 285/280
4 balls weld [ASTM D 2596] (Kg): 350

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
High quality lithium grease for **multiple uses** recommended for the lubrication of reduction and motoreduction axles and for all centralized lubricating systems (e.g. Meca Fluid). It is also used as a sealant instead of some oils.

It must be used when smooth grease EP 00 is recommended.

### NLGI 00

**Technical data**
- **Nature of the soap**: lithium
- **Colour**: amber | Appearance: smooth
- **Penetration** \[NF T 60-132\]/(1/10 mm): 400/430
- **Corrosion Cu 3 h/100°C [ASTM D 4048]**: 1 b
- **Limit temperature of use**: (-35 to +135°C)
- **EMCOR Test distilled water [NF T 60-135]**: 0
- **4 weld balls [ASTM D 2596] (Kg)**: 250
- **4 wear balls 1h40kg [ASTM D 2266] (mm)**: 0.50
- **Oxidation after 100 h [ASTM D 942] (psi)**: < 6
- **Drop point [METTLER method] (°C)**: 180

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
Multipurpose grease for difficult lubricating especially resistant to rust, water or high temperature. It is ideal for the lubrication of civil engineering equipment and machine-tool working under heavy load or at high temperature. Also suitable for the general lubrication of trucks (articulations, bearings, trailer turntables).

High properties of adhesion and extreme pression resistance
Metal tearing avoided.

«Extreme pressure» additives
Reduced wear of components in movement.

Longer lubrication periods

Insoluble in water

Technical data
Soap nature: chemical complex
Colour: green | Appearance: smooth
Penetration [ASTM D-217]: 265 / 295
Recommended temperature range (°C): -20/+150
4 balls welding load (Kg): 315
Dropping point [Mettler] (°C): 190

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
High quality lithium grease for **multiple uses** recommended for the **lubrication of reduction and motoreduction axles and for all centralized lubricating systems** (e.g. Meca Fluid). It is also used as a sealant instead of some oils.

It must be used when smooth grease EP 000 is recommended.

**Grease**

«Extreme pressure» additives
Reduced wear of components in movement.

**Inhibitors of corrosion and oxidation**

**Insoluble in water**

**Technical data**

Nature of the soap : lithium

Colour : amber | Appearance : smooth

Penetration [NF T 60-132](1/10 mm) : 450/470

Corrosion Cu 3 h/100°C [ASTM D 4048] : 1 b

Limit temperature of use (°C) : -40 to +110

EMCOR Test distilled water [NF T 60-135] : 0

4 weld balls [ASTM D 2596] (Kg) : 250

4 wear balls 1 h/40 kg [ASTM D 2266] (mm) : 0.55

Drop point [METTLER method] (°C) : 150

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
High quality lithium grease for multiple uses recommended for the lubrication of reduction and motoreduction axles and for all centralized lubricating systems (e.g. Meca Fluid). It is also used as a sealant instead of some oils.

It must be used when smooth grease EP 0 is recommended.

**Technical data**

- **Nature of the soap**: lithium
- **Colour**: amber | **Appearance**: smooth
- **Penetration** [NF T 60-132](1/10 mm): 355/385
- **Corrosion Cu 3 h/100°C** [ASTM D 4048]: 1 b
- **Limit temperature of use (°C)**: -32 to +145
- **EMCOR Test distilled water** [NF T 60-135]: 0
  - 4 weld balls [ASTM D 2596] (Kg): 250
  - 4 wear balls 11h40kg [ASTM D 2266] (mm): 0.55
- **Oxidation after 100 h** [ASTM D 942] (psi): < 6
- **Drop point** [METTLER method] (°C): 185

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
This amber-coloured antifreeze is formulated with high quality monoethylene glycol base, corrosion and emulsion inhibitors.

It has been developed for the «new generation» engines and more especially to meet the following car manufacturers requirements: MERCEDES - BMW – MTU.

Efficient and long lasting protection of the engine and the cooling system components, including those in aluminium

Anticorrosion and antifoaming additives

Exempt from potentially harmful additives such as nitrites, amines and phosphates

To ensure good cooling it is recommended to use from 25% to 50% volume of ACCOGEGL N 325 in the coolant solution

Technical data

- Density at 20°C : 1.127
- Boiling point (°C) : 176
- Reserve alkalinity : > 20
- Pure antifreeze pH: 8.1
- Diluted antifreeze pH 33% : 8 - 8.5
- Foaming (ml) : < 50
- Break time (s) : 3
- M.E.G. (%) : 95

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
Antifreeze formulated with high quality monoethylene glycol base, anticorrosion and antifoaming additives. It has been developed for the «new generation» engines. It can also be used in industrial heating systems without sanitary hot water production.

It meets the requirements of following car and trucks manufacturers: DAIMLER BENZ – FIAT – FORD – GM – PEUGEOT – RENAULT.

**AFNOR NF R 15-601 – type 1**

**Efficient and long lasting protection of the engine and the cooling system components, including those in aluminium**

**Anticorrosion and antifoaming additives**

**Exempt from potentially harmful additives such as nitrites, amines and phosphates**

**Resistant to hard water**

To ensure good cooling it is recommended to use from 25% to 50% volume of ACCOGEIL M.E.G. in the coolant solution

**Technical data**

- Density at 20°C : 1.125
- Boiling point (°C) : 176
- Reserve alkalinity : > 16
- Pure antifreeze pH : 8.1
- diluted antifreeze pH 33% : 8
- Foaming (ml) : < 50
- Break time (s) : 3
- M.E.G. (%) : 95
- Weight loss : < 0.4 mg/cm on copper-welds-brass-steel-iron cast-aluminium

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
Coolant

This blue-colored coolant is formulated with high quality monoethylene glycol, distilled water and corrosion inhibitors.

It has been developed in accordance with the latest car and truck manufacturers requirements.

**NF R 15-601 – Type 2**

<table>
<thead>
<tr>
<th>High boiling point</th>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good cooling of the engine ensured.</td>
<td>Density : 1.070</td>
</tr>
<tr>
<td><strong>Anticorrosion additives</strong></td>
<td>M.E.G. + inhibitors (%) : 48</td>
</tr>
<tr>
<td>Full protection of the radiator components, including those made in aluminium.</td>
<td>pH : 8.1</td>
</tr>
<tr>
<td><strong>Protection against freezing down to -30°C</strong></td>
<td>Reserve alcanility : 10.8</td>
</tr>
<tr>
<td><strong>Pre-diluted and ready to be used</strong></td>
<td>Boiling point : 107</td>
</tr>
</tbody>
</table>

Foaming volume (ml) : ≤ 50
Break time (s) : ≤ 3
Weight loss : 0.4 mg/cm on steel-iron cast-copper-brass-welds-aluminum

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*
ACCORAL PERMANENT -25°C

Coolant

This blue-coloured coolant is formulated with high quality monoethylene glycol, distilled water and corrosion inhibitors.

It has been developed in accordance with the latest car and truck manufacturers requirements.

NF R 15-601 – Type 2

High boiling point
Good cooling of the engine ensured.

Anticorrosion additive
Full protection of the radiators components, including those made in aluminium.

Protection against freezing down to -25°C

Pre-diluted and ready to be used

Technical data
Density : 1.064
M.E.G. + inhibitors (%) : 41
pH : 8.1
Reserve alkalinity : 9.8
Boiling point : 106
Foaming volume (ml) : ≤ 50
Break time (s) : ≤ 3
Weight loss : 0.4 mg/cm on steel-iron cast-copper-brass-welds-aluminium

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.
This blue-coloured coolant is formulated with high quality monoethylene glycol, distilled water and corrosion inhibitors.

It has been developed in accordance with the latest car and truck manufacturers requirements.

**NF R 15-601 – Type 3**

**Technical data**
- **Density**: 1.075
- **M.E.G. + Inhibitors (%)**: 48
- **pH**: 8.1
- **Reserve Alkalinity**: 11.5
- **Boiling Point**: 108
- **Foaming Volume (ml)**: ≤ 50
- **Break Time (s)**: ≤ 3
- **Weight Loss**: 0.4 mg/cm on steel-iron cast-copper-brass-welds-aluminium

The given data are typical data.

*Please regularly check that you have the latest up-to-date technical data sheet.*