Repsol’s industrial oils are the perfect solution to lubricate your machinery. We have a wide range of industrial oils that meet the most demanding quality standards and adapt to any specific needs of the machinery, process, or customer.

In this way, we can guarantee that your machinery and equipment is perfectly lubricated and protected, thereby enhancing its functions, improving performance, contributing to energy savings, and extending its service life.

We have our research center, Repsol Technology Lab, at the forefront of R&D+i worldwide. There, our technicians and researchers are constantly striving to improve every product we offer to ensure maximum efficiency, as well as enhanced technical and environmental quality.

We have a wide range of mineral oils formulated using G-I base oils obtained in our very own refineries. These top-quality base oils allow Repsol to meet most of the lubrication requirements set by industrial machinery manufacturers.

For more demanding applications that require high antioxidant properties or a lubricant with a long service life, Repsol uses synthetic G-III base oils (also produced in our own refineries) to produce premium lubricants that meet the highest lubrication standards.

We also have synthetic oils blended using ester, polylalphaolefin (PAO), or polyalkylene glycol (PAG) base oils for applications that require these types of lubricants with excellent performance.

You can also find a range of biodegradable products that ensure both your machinery and the environment are protected.

A company that has been immersed in a process of transformation and diversification of its businesses with the aim of leading the energy transition, being the first company in its sector to support the Kyoto Protocol and the first to issue a green bond. And also the first to set the goal, in December 2019, of achieving net zero emissions by the year 2050, with intermediate targets for reducing its Carbon Intensity Indicator in 2020, 2025, 2030, and 2040.

To achieve net zero emissions by 2050, Repsol is committed to a model that integrates all technologies for decarbonization, based on improving efficiency, renewable power generation, products with a low, neutral or even negative carbon footprint, circular economy, industrial innovation, and the development of new solutions based on digitalization.
Index

Here you can find out all the details about the lubricant range that meets your needs, as well as the corresponding production process. For more information click on the product range or sector you are interested in.

**RANGES**
- Hydraulics
- Gears
- Turbines
- Compressors and refrigeration equipment
- Insulating oils
- Heat transfer
- Circulation
- Food Grade
- Metalworking industry
- Special applications
- Gas cogeneration
- Multi-purpose
- Greases
- Biodegradable

**SECTORS**
- Paper mills
- Cement industry
- Iron and steel industry
- Chemicals industry
- Power generation
- Mining Industry
- Food industry

Find out more about the technical characteristics of each lubricant [here](#).
Repsol’s hydraulic oils are formulated using specially selected and refined base oils and cutting-edge additives that ensure all parts of your machinery are strong and reliable to meet your needs, even in extreme working conditions.

To do so, when developing our hydraulic fluids, we balance the necessary additives to get anti-wear, filterability, oxidation stability, demulsibility, and corrosion protection properties combined for optimal lubrication, positioning the Company at the forefront of current lubricating oil technology.

Repsol has a wide range of hydraulic oils to meet the needs of all its customers, from conventional oils with state-of-the-art zinc-based anti-wear additives to cutting-edge oils with ashless technology, in addition to biodegradable oils with a high viscosity index or even fire-resistant lubricants.

This all comes with our commitment to sustainability and to protect the environment the environment thanks to the use of regenerated base oils and biodegradable fluids.
Hydraulics

<table>
<thead>
<tr>
<th>Conventional hydraulic Oils</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Aries</td>
<td>DIN 51524 HL, ISO 6743/4 HL</td>
<td>15, ..., 220</td>
<td>Multi-purpose oils that can be used to correctly lubricate all equipment that does not require a state-of-the-art hydraulic oil and that work at controlled temperatures and pressures.</td>
</tr>
<tr>
<td>Maker Libra Hydraulic HLP</td>
<td>DIN 51524 HLP, ISO 6743/4 HM</td>
<td>32, 46, 68</td>
<td>Oils formulated with top-quality regenerated base oils that meet the standard performance levels required in normal hydraulic circuits.</td>
</tr>
<tr>
<td>Maker Hydroflux EP</td>
<td>DIN 51524 HLP, ISO 6743/4 HM, AFNOR NF ISO 1115B HM, AFNOR NF E 48690/48691</td>
<td>32, ..., 100</td>
<td>Lubricant oils formulated with highly refined paraffinic base oils and anti-wear and anti-oxidation additives that are perfectly balanced to achieve high performance in hydraulic systems that operate at high temperatures and pressures.</td>
</tr>
<tr>
<td>Maker Telex E</td>
<td>DIN 51524 HLP, ISO 6743/4 HM, AFNOR NF ISO 1115B HM, \textit{AFNOR NF E 48690/48691, FIVE CINCINNATI P-Specs, EATON VICKERS I-286-S and M-2950-S, PARKER DENISON HF-0, H-1, HF-1 Approved by the main OEMs such as: VOITH, ORTLINGHAUS, ABB, THYSSENKRUPP, IBERCISA, IMS DELTA MATIC, ENGEL, NEGRIBOSSI}</td>
<td>5, ..., 100</td>
<td>Hydraulic oils that meet the quality levels established in the DENISON HF-0 specification. Suitable for use in circuits that have piston and vane pumps and operate at high pressures, as well as, potentially, elevated temperatures. Excellent control of varnish formation, thereby improving lubrication in servo valves.</td>
</tr>
<tr>
<td>Maker Hydraulic SC</td>
<td>DIN 51524 HLP, ISO 6743/4 HM, AFNOR NF ISO 1115B HM, \textit{FIVE CINCINNATI P-Specs, PARKER DENISON HF-0, H-1 and HF-2 Approved by the main OEMs such as: VOITH, SIEMENS, MANULI, NESTAL - KRAUSS MAFFEI}</td>
<td>(20), 32, 46, 68</td>
<td>Oils with zinc-free (ashless) additives that are suitable for use in lubrication circuits that require an oil with these characteristics. Cutting-edge lubricants that meet DENISON HF-0 quality levels, suitable for lubricating circuits with demanding filters that operate at high pressure and temperatures.</td>
</tr>
<tr>
<td>Maker Vacuum Pump Oil</td>
<td>DIN 51524 HLP, ISO 6743/4 HM</td>
<td>SAE grade 10W and 30</td>
<td>This oil is recommended for use in vacuum pumps, and more specifically for milking machine pumps.</td>
</tr>
</tbody>
</table>
## Hydraulics

<table>
<thead>
<tr>
<th>Hydraulic Oils with a high viscosity index</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Telex HVLP</td>
<td>DIN 51524 HVLP ISO 6743/4 HV, AFNOR NF ISO 11158 HV, AFNOR NF E 48690/48691, EATON VICKERS I-286-S and M-2950-S, FIVE CINCINNATI P-Specs. Approved by the main OEMs such as: IBERCISA, ACCIONA, IMS DELTA MATIC, MANULI, THYSSENKURPP</td>
<td>15, ..., 68</td>
<td>Hydraulic oils with a high viscosity index formulated using highly refined paraffinic base oils and carefully selected additives that give the lubricant excellent anti-wear and antioxidant properties. They have a viscosity index improver that allows them to maintain a stable viscosity at a wide range of temperatures. We recommend this product for hydraulic systems with a wide range of operating temperatures as they are exposed to the elements or function intermittently and are constantly switched on and off, helping cold weather start-ups and protecting equipment.</td>
</tr>
<tr>
<td>Maker Hidroleo</td>
<td>DIN 51524 HVLP ISO 6743/4 HV, AFNOR NF ISO 11158, FIVE CINCINNATI P-Specs, VOITH 3625-008427 (ISO 32), MANULI</td>
<td>32, ..., 100</td>
<td>Oils with a high viscosity index that are suitable for operation over a wide range of temperatures, helping frequent start-stop. Oils with zinc-free (ashless) additives that are suitable for the lubrication of hydraulic circuits that have demanding filter requirements.</td>
</tr>
<tr>
<td>Qualifier Fork Oil</td>
<td>DIN 51524 HVLP</td>
<td>SAE grade 5W and 10W</td>
<td>Synthetic oil with a high viscosity index and additives to reduce friction. Recommended for hydraulic circuits that work at extreme temperatures.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biodegradable Oils</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Bio Telex</td>
<td>DIN 51524 HVLP (exc. resistance to aging), ISO 6743/4 HEES, ECOLABEL (ISO grades 46 and 68)</td>
<td>32, 46, 68</td>
<td>Systems located in environmentally sensitive locations. Used over a wide range of temperatures [from -40 °C to 100 °C] in severe load and wear conditions. All the components of these product range are no toxic and meet the stringent environmental requirements of the European Ecolabel.</td>
</tr>
</tbody>
</table>
## Hydraulics

<table>
<thead>
<tr>
<th>Enhanced Safety</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maker Telex HFC</strong></td>
<td>ISO 6743/4 HFC, ISO 12922 HFC 7° LUXEMBOURG REPORT</td>
<td>46</td>
<td>An HFC-type [water-glycol mix], fire-resistant fluid recommended to substitute conventional oils in hydraulic applications when a potential oil leak could cause a fire after coming into contact with hot areas. Self-extinguishing oil.</td>
</tr>
<tr>
<td><strong>Maker Telex Vulcano</strong></td>
<td>ISO 6743/4 HFDU, ISO 12922 HFDU 7° LUXEMBOURG REPORT, MANULI HYDRAULICS</td>
<td>68</td>
<td>Hydraulic fluid based on HFDU polyol esters. A fluid that strikes the perfect balance between hydraulic system lubrication and fire resistance. Suitable for use in the most demanding hydraulic circuits (high pressure) close to hot spots.</td>
</tr>
</tbody>
</table>

### Products for public works

<table>
<thead>
<tr>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maker Telex SAE 10W</strong></td>
<td>SAE grade 10W-20</td>
<td>A hydraulic fluid specially designed to offer excellent performance in off-road machinery, which needs a lubricant that protects equipment in cold start-ups.</td>
</tr>
<tr>
<td><strong>Maker Telex HLPD</strong></td>
<td>DIN 51524 HLPD, THYSSENKRUPP 14</td>
<td>68</td>
</tr>
</tbody>
</table>
## Hydraulics

### Packaging

<table>
<thead>
<tr>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Libra Hydraulic HLP 32</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Maker Libra Hydraulic HLP 46</td>
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<td>✔</td>
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</tr>
<tr>
<td>Maker Libra Hydraulic HLP 68</td>
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<tr>
<td>Maker Hydroflux EP 46</td>
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<td>Maker Hydroflux EP 68</td>
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<td>Maker Telex E 22</td>
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<tr>
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<td>✔</td>
<td>✔</td>
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<td>Maker Telex E 46</td>
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<tbody>
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<tr>
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<tr>
<td>Maker Vacuum Pump oil SAE 10W</td>
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<td>Maker Telex HVLP 15</td>
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</table>
# Hydraulics

## Packaging

<table>
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<tr>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
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<th>5 L Bottle</th>
<th>1 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Hidroleo 32</td>
<td>✓</td>
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<tr>
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<tr>
<td>Maker Hidroleo 68</td>
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<tr>
<td>Maker Hidroleo 100</td>
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<td>Qualifier Fork Oil 5W</td>
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<td>Qualifier Fork Oil 10W</td>
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<td>Maker Bio Telex 32</td>
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<td>Maker Bio Telex HFC 46</td>
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<tr>
<td>Maker Telex Vulcano 68</td>
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<td>Maker Telex SAE 10W</td>
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<td>Maker Telex HLPD 68</td>
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</table>

- **Product Bulk 1000 L Container**: 208 L Drum, 20 L Drum, 5 L Bottle, 1 L Bottle
- **Maker Hidroleo 32**: 208 L Drum, 20 L Drum
- **Maker Hidroleo 46**: 208 L Drum, 20 L Drum
- **Maker Hidroleo 68**: 208 L Drum, 20 L Drum
- **Maker Hidroleo 100**: 208 L Drum
- **Qualifier Fork Oil 5W**: 208 L Drum
- **Qualifier Fork Oil 10W**: 208 L Drum
- **Maker Bio Telex 32**: 208 L Drum
- **Maker Bio Telex 46**: 208 L Drum
- **Maker Bio Telex 68**: 208 L Drum
- **Maker Bio Telex HFC 46**: 208 L Drum
- **Maker Telex Vulcano 68**: 208 L Drum
- **Maker Telex SAE 10W**: 208 L Drum
- **Maker Telex HLPD 68**: 208 L Drum
The oils designed by Repsol to lubricate enclosed gears include mineral and synthetic base oils to cover all application and conditions and offer solutions to meet our customers’ needs.

On the basic premises of protecting equipment against wear, all our oils have an optimal mix of additives that allows for an extraordinary load capacity in FZG testing, while also guaranteeing the lubricant’s anti-oxidation and anti-corrosion properties. To do so, synthetic gear oils allow for prolonged drain intervals without any loss of lubrication and protection.

Repsol has designed a complete range of lubricating oils to overcome the technical challenges posed by the wide variety of industrial gearboxes. In the gear oils catalog, you can also find Flender approved products for gearboxes with micropitting protection needs.
## Gears

<table>
<thead>
<tr>
<th>Gears</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Super Tauro</td>
<td>DIN S1517 CLP ISO 6743/6 CKD, AGMA 9005-E02-EP, AISI 224, BV2060/2, DAVID BROWN S1.53,101, ENGEL, FIVE CINCINNATI P-Specs, GOST 23652-79 TAP-35V (ISO 68, 100, 150 and 220), IBERCISA, REINTJES BV 1597/2, SIEMENS GAMESA GEARBOX</td>
<td>68, ..., 1000</td>
<td>Oils recommended for the lubrication of all types of industrial gears that work in severe load conditions. Oils with extraordinary performance in the 4 ball EP test machine, offering unbeatable results compared to other products on the market.</td>
</tr>
<tr>
<td>Maker Super Tauro FND</td>
<td>DIN S1517 CLP ISO 6743/6 CKD, FLENDER Rev. 13</td>
<td>320</td>
<td>Oils suitable for the lubrication of wind turbines, cement kiln gears, and paper mills. Excellent protection against micropitting. They achieve a mark of &gt; 10 / High in the Grey Staining test FVA 54/III.</td>
</tr>
<tr>
<td>Maker Super Tauro Synth</td>
<td>DIN S1517 CLP ISO 6743/6 CKT, AGMA 9005-E02-EP, AISI 224, FIVES CINCINNATI, P-35 (460), P-59 (320), P-76 (100), P-77 (150), P-74 (220), REINTJES BV 1597/4, BV1017/4, SIEMENS MD FOR FLENDER GEAR, THYSSENKRUPP (Gears CLP PAO), UNITS REV.16 (ISO 150 TO 460 VG)</td>
<td>100, ..., 460</td>
<td>Oils formulated with PAO synthetic base oils suitable for use in systems that operate at very high temperatures with extended oil drain intervals thanks to its high oxidation stability. They provide excellent protection against micropitting fatigue. Maximize profitability, reducing maintenance shutdowns, offering extended drain intervals in equipment with difficult access. These oils have the quality levels required for use in wind turbine gearbox.</td>
</tr>
<tr>
<td>Maker Super Tauro PAG</td>
<td>DIN S1517 CLP ISO 6743/6 CKPR / CKGR, AGMA 250-04, AISI 224, FLENDER (ISO 680 and 1000)</td>
<td>150, ..., 1000</td>
<td>Oils formulated with synthetic PAG (polyalkylene glycol) base oils. These lubricants specially recommended for worm gears, provide excellent lubrication even in high sliding conditions. Suitable for the lubrication of drying oven bearings in cement factories. Excellent protection against failures due to micropitting. They achieve a mark of &gt; 10 / High in the Grey Staining test FVA 54/III.</td>
</tr>
<tr>
<td>Maker Super Tauro GT</td>
<td>DIN S1517 CLP ISO 6743/6 CKD, ANSI/AGMA 9005-E02, AISI 224, DAVID BROWN, FAG SCHÄFFLER, HANSEN, SIEMENS MD REV. 16 (FLENDER) MOVENTAS, WINERGY</td>
<td>320</td>
<td>Synthetic oils approved by FLENDER with improved thermal stability and load capacity compared to mineral oils. Developed for use in wind turbine gears; proved performance retention in extended drain intervals. Excellent protection against failures due to micropitting. They achieve a mark of &gt; 10 / High in the Grey Staining test FVA 54/III.</td>
</tr>
<tr>
<td>Maker Super Tauro OGL</td>
<td>DIN S1517 CLP ISO 6743/6 CKD, ANSI/AGMA 9005-E02, AISI 224, DAVID BROWN, FAG SCHÄFFLER, HANSEN, SIEMENS MD REV. 16 (FLENDER) MOVENTAS, WINERGY</td>
<td>8000, 16000, 24000</td>
<td>Synthetic lubricants formulated with hydrotreated group II base oils and a high-quality synthetic thickener. Oils mainly developed for the lubrication of toothed rims, large open bearing transmissions, and all its brackets. Its excellent performance in heavily-loaded equipment allows lubrication to be ensured, helping to minimize wear and protecting the equipment against external agents. High-performance lubricant carefully additivated to also be used in the sugar cane industry.</td>
</tr>
</tbody>
</table>
## Gears

### Packaging

<table>
<thead>
<tr>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Super Tauro 68</td>
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# Gears

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Repsol’s range of turbine oils covers all the lubrication needs of modern equipment, from the turbines of hydroelectric power plants to steam and gas turbines in combined cycle power plants, ensuring the lubricant has a long service life.

All oils fulfill the majority of international quality standards, as well as the most demanding requirements of equipment manufacturers such as Alstom, Siemens, Solar, or General Electric.

The high temperatures that can be reached in some state-of-the-art gas turbine bearings require lubricants that are highly resistant to oxidation. Thanks to the G-III base oils produced in its own facilities, Repsol has a wide variety of high-performance synthetic lubricants produced that can take on the most demanding lubrication challenges.

The range is complemented with a specific oil for the control system of steam turbines, where high temperatures in the servo valves need an specific fire resistant fluid.
## Turbines

<table>
<thead>
<tr>
<th>Mineral Oils</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Aries</td>
<td>DIN 51515-L-TD, ISO 6743/5-TGA/TSA, GEK 46506 E</td>
<td>15, ..., 220</td>
<td>Oils designed to lubricate hydraulic turbines that do not have high lubrication needs but require a product that works well in wet conditions. This product is able to demulsify thanks to the quality of the base oils used, thereby preventing corrosion and the hydrolysis of additives.</td>
</tr>
<tr>
<td>Maker Turbo Aries</td>
<td>DIN 51515-L-TD, ISO 6743/5-TGB/TSA, ALSTOM HTG90117, CSN 65 6620, DOOSAN SKODA TP0010A, GEK 46506E, GEK 32568J, GEK 28143b, SIEMENS TLV 9013 04 (ISO 32 and 46), SOLAR ES9-224AA Class II</td>
<td>32, 46, 68</td>
<td>Oils specially developed to meet the demands of the manufacturers of steam or hydraulic turbines without a gearbox that require an oil with a long service life and good antioxidant properties. As they require a hydrodynamic lubrication system, an EP (extreme pressure) additive is not needed in the formulation. These oils release air very quickly, preventing problems such as foaming and controlling the formation of lacquer, varnish, and other by-products of degradation thanks to the outstanding quality of the base oils.</td>
</tr>
<tr>
<td>Maker Aries Turbo Gas</td>
<td>DIN 51515-L-TDP, ISO 6743/5-TGE/TSE, GEK 46506E, GEK 32568J, GEK 28143b, GEK 101941A, SIEMENS TLV 9013 04, SOLAR ES9-224AA Class II, VOITH 3625-008427</td>
<td>32, 46, (80)</td>
<td>Oils developed for use in steam turbines with a gearbox. This type of applications in which the same oil circuit lubricates both the bearing and the gearbox require a product with carefully selected additives to protect the gear teeth without negatively affecting the lubrication of the turbine bearing.</td>
</tr>
</tbody>
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## Turbines

<table>
<thead>
<tr>
<th>Synthetic Oils</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
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<tbody>
<tr>
<td>Maker Turbo Aries Plus</td>
<td>DIN 51515 LTGP ISO 6743/5 TGB/ TSA, GEK 465060, GEK 32568, GEK 28143b, GEK 107395A [ISO 32], GEK 120498, MAN 10000494596 rev02, SOLAR E59-224AA Class II</td>
<td>32, 46</td>
<td>Zinc-free oils formulated with hydrotreated group III base oils, specially designed to provide state-of-the-art lubrication in gas and steam turbines or turbochargers without EP requirements that operate at high temperatures and call for high-performance lubricants. They are characterized by their excellent resistance to oxidation and chemical degradation, which significantly prolongs their service life.</td>
</tr>
<tr>
<td>Maker Aries Turbo Gas CC</td>
<td>DIN 51515-L-TGP, ISO 6743/5-TGE/TSE, ALSTOM HTGD90117, GEK 465066, GEK 32568, GEK 28143b, GEK 107395A [ISO 32], GEK 120498, GEK 27070, MAN 10000494596 rev02, SIEMENS TLV 9013 04 [ISO 32], SOLAR E59-224AA Class II</td>
<td>32, 46</td>
<td>Synthetic oils formulated with hydrotreated group III base oils that have exceptional antioxidant properties, allowing them to fulfill the most recent specifications for gas turbines in TOST and RPVOT testing. The ideal lubricant for gas turbines with a gearbox that requires high thermal stability to withstand the temperatures reached by the bearings, without forgetting the minimum EP additives necessary to protect the gear teeth.</td>
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<table>
<thead>
<tr>
<th>High-safety Oils</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
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<tr>
<td>Maker Comander Blue EHC</td>
<td>ISO 6743/5-LTCD, ALSTOM HTGD 690149, GEK 46357, SIEMENS TLV 9012 03</td>
<td>46</td>
<td>Fire-resistant hydraulic fluid (HFDR) formulated with phosphoric acid esters. Recommended for use in the electric hydraulic control systems of steam turbines, including solenoid valve systems. This oil is approved by Siemens for this application.</td>
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## Turbines

### Packaging

<table>
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<tr>
<th>Product</th>
<th>Bulk</th>
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Compressors and refrigeration equipment

Repsol’s oils for compressors and refrigeration equipment are designed to guarantee ultimate reliability and maximize efficiency, as they are key to ensure a smooth operation in industrial plants. Therefore, an essential part of maintenance systems is selecting the right lubrication system.

Repsol has designed a range of high-quality lubricants formulated using well refined base oils and cutting-edge additives. This allows them to meet all requirements of the different types of compressors on the market.

The Repsol lubricants range includes highly-refined paraffinic oils for normal working conditions, as well as other long-life synthetic oils for air compressors operating in more severe conditions.

The range is complemented by oils for refrigeration systems with both synthetic and naphthenic base oils, which are miscible and compatible with the various refrigerant gases commonly used in this type of equipment and ensure the compressor is correctly lubricated at low temperatures.
## Compressors and refrigeration equipment

<table>
<thead>
<tr>
<th>Air Compressors</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
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</thead>
<tbody>
<tr>
<td>Maker Aries</td>
<td>DIN 51506 VBL, ISO 6743/3 DAB/DVA/DVC/DVE</td>
<td>15, ..., 220</td>
<td>The higher viscosity index ensures excellent lubrication of reciprocating compressors. Minimal ash generation to avoid problems in compressor outlet valves.</td>
</tr>
<tr>
<td>Maker Turbo Aries</td>
<td>DIN 51506 VBL, ISO 6743/3 DAA/DAG</td>
<td>32, 46, 68</td>
<td>Lubrication oils suitable for use in screw compressors (ISO 32 and 46) or reciprocating compressors (ISO 68) that require excellent antioxidant properties and a good lubricant film to prevent wear.</td>
</tr>
<tr>
<td>Maker Turbo Aries Plus</td>
<td>DIN 51506 VBL, ISO 6743/3 DAB/DAH</td>
<td>32, 46</td>
<td>Synthetic oils formulated with group III base oils, which give the product exceptional oxidation resistance. Its carefully selected additives give it excellent cleanliness qualities, even at the high temperatures it experiences in gas compressors.</td>
</tr>
<tr>
<td>Maker Aries Turbo Gas CC</td>
<td>DIN 51506 VBL, ISO 6743/3 DAB/DAH</td>
<td>32, 46</td>
<td>Oils formulated with hydrotreated group III base oils that afford excellent performance in such severe oxidation conditions as the lubrication of screw compressors. During the compression stages, the oil travels with air at high temperatures, and the thermal stability of these lubricants ensures that the oil does not suffer premature degradation and lubricates the bearings correctly, while minimizing ash formation for 6,000 operational hours.</td>
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<tr>
<td>Maker Merak VDL</td>
<td>DIN 51506 VDL, ISO 6743/3 DAA/DAG, MacGregor (HATLAPA, PORSGRUNN, PUSNES)</td>
<td>46, 68, 100</td>
<td>Lubrication of cylinders and rotary or reciprocating compressor mechanisms, whether air or inert gas compressors that have high discharge temperatures (up to 220 °C).</td>
</tr>
<tr>
<td>Maker Synthetic Thor</td>
<td>DIN 51506 VDL, ISO 6743/3 DAB/DAJ/DGE/DVE, MacGregor (HATLAPA, PORSGRUNN, PUSNES)</td>
<td>100</td>
<td>Lubrication of reciprocating compressors that operate in severe conditions, for rotary vane or screw compressors where the fluid allows for long periods between oil changes. This product can also be used in vacuum pumps and inert gas compressors.</td>
</tr>
<tr>
<td>Maker Synthetic Compressor</td>
<td>DIN 51506 VDL, ISO 6743-3 DAB/DAJ/DGB/DGC, New Pignone SOP66677 type A and D</td>
<td>220</td>
<td>Zinc-free synthetic oil (PAO base oil) specially designed for the lubrication of air compressors with special cleanliness requirements. It stands out for its exceptional resistance to oxidation and chemical degradation, which multiplies its useful service life.</td>
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## Compressors and refrigeration equipment

<table>
<thead>
<tr>
<th>Refrigeration Equipment</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
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<tr>
<td>Maker Ice Oil</td>
<td>DIN 51503 KAA, KC, ISO 6743-3B-DRA</td>
<td>32, 46, 68</td>
<td>Naphthenic oils for refrigeration compressors that use freon, R12, R22, ammonia, or carbon dioxide as a refrigerant. They guarantee that compressors are protected at low temperatures and are highly miscible/compatible with the gases being used.</td>
</tr>
<tr>
<td>Maker Ice Oil S</td>
<td>DIN 51503 KD, ISO 6743-3B-DRD and approved by the manufacturers: DANFOSS COMMERCIAL (scroll and piston) for ISO 32, BITZER (screw), FRASCOLD (piston), BLISSFIELD (piston) for ISO 68 and DORIN (piston) among others.</td>
<td>32, 68</td>
<td>POE-based synthetic oils for use in compressors that mainly use HFC refrigerants (R-134a). These oils do not lose viscosity when they come into contact with this type of gases, thereby ensuring that the system is lubricated correctly.</td>
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## Compressors and refrigeration equipment

### Packaging

<table>
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<th>Product</th>
<th>Bulk</th>
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## Compressors and refrigeration equipment

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## Compressors and refrigeration equipment

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</table>
Repso's insulating oils offer top performance, reliability, and safety, making them the most popular choice for use in transformers and switchgear.

Both the Maker Electra and Maker Tension Centaruo ranges, which have inhibited and non-inhibited products, have a high oxidation stability, good dielectric strength, and excellent properties at low temperatures. They ensure there are no impurities such as dissolved gases, water or solids in suspension.

In addition, all these products meet the requirements of international standards such as the IEC 60296 and the ASTM D3487. They have been validated and used by a wide variety of electricity companies and transformer and electrical equipment manufacturers. Furthermore, Maker Electra 3X Plus is classified as Type A or HIGH GRADE according to IEC 60296:2020 due to low hydrogen, methane and ethane concentration in stray gassing test.

The range is complemented by two biodegradable products. Maker Bio Electra and Maker Bio Electra Synth, formulated with refined vegetable oils and synthetic esters, respectively. Thanks to their chemical composition, they are highly biodegradable and extremely fire-resistant. This makes them highly recommended for use in areas that, apart from demanding technical requirements, call for elevated safety conditions.

Discover all the products in our Insulating Oils Catalog.
Repsol's oils are designed for heat transfer processes, which are crucial in a large number of industries.

Repsol has worked on developing efficient lubricants for use in these processes in closed heating systems.

These oils allow for rapid heat transfer, which leads to high energy efficiency. They are characterized by their long service life thanks to their resistance to degradation and to sludge formation.
## Heat transfer

<table>
<thead>
<tr>
<th>Heat transfer</th>
<th>Quality Levels</th>
<th>Applications</th>
</tr>
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<tbody>
<tr>
<td>Maker Termico</td>
<td>DIN 51522-Q, ISO 67/43/12-QB</td>
<td>Heat transfer fluid with specific additives to obtain high levels of thermal stability. For use in enclosed circuits that reach maximum temperatures of 300 °C.</td>
</tr>
<tr>
<td>Maker Termico Synth</td>
<td>ISO 67/43/12-QC</td>
<td>Synthetic heat transfer fluid with special additives to obtain extraordinary thermal stability. For use in enclosed circuits that reach maximum temperatures of 315 °C.</td>
</tr>
<tr>
<td>Maker Heliotermo</td>
<td>DIN 51522-Q, ISO 67/43/12-QA</td>
<td>Heat transfer fluid with high thermal and oxidation stability. For use in electric radiators.</td>
</tr>
</tbody>
</table>
Heat transfer

Packaging

<table>
<thead>
<tr>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Termico</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maker Termico Synth</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maker Heliotermo</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Circulation

Repsol's circulation lubricants provide the strength and reliability required by large bearings.

They also have excellent water removal properties, making them especially suitable for use in moist environments such as paper factories, as well as for general lubrication (with or without high pressure).

They are all prepared in the viscosity grades traditionally used to lubricate rolling mill bearings and meet the requirements of the bearing manufacturer MORGOIL.
## Circulation

<table>
<thead>
<tr>
<th>Circulation</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker System</td>
<td>FC class, in accordance with ISO 6743/2. Meets the requirements of the manufacturers of MORGOIL bearings.</td>
<td>220, 320, (390), 460, 680</td>
<td>Fluid for lubricating bearings subjected to severe operating conditions (such as rolling mills), in addition to industrial gears that work in non-demanding conditions or the sumps of some compressors.</td>
</tr>
<tr>
<td>Maker System EP</td>
<td>FD class, in accordance with ISO 6743/2. Meets the requirements of the manufacturers of MORGOIL bearings.</td>
<td>100, 220, 320, 460</td>
<td>Fluid for lubricating bearings subjected to very severe operating conditions (such as rolling mills), in addition to industrial gears that withstand medium loads.</td>
</tr>
</tbody>
</table>
## Circulation

### Packaging

<table>
<thead>
<tr>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker System 220</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maker System 320</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maker System 390</td>
<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Maker System 460</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Maker System 680</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Maker System EP 100</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maker System EP 220</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Maker System EP 320</td>
<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Maker System EP 460</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>
Repsol’s Food Grade lubricants meet the most demanding lubrication needs of the food processing industry and its machinery, where lubricants may accidentally come into contact with food items.

This range is able to protect against wear, corrosion, and deposit formation inside machinery in the same way as conventional oils with a special formulation to meet the highest quality standards demanded by the food industry (NSF category H1).

Discover all the products in our Food Industry Lubricants Catalog.
Repsol’s various oil ranges for metalworking industry cover the majority of current demands in this industry: Repsol Ibercut, Ibertem, Empatem, and Laminox.

The high quality of the base oils and the carefully selected additives make it an excellent choice to optimize any metalworking industry operations, from the initial extraction and subsequent purification of metals to cutting, polishing, tempering, and corrosion protection operations, including transformation processes such as continuous casting and rolling.

Given the demanding requirements and large number of processes, on many occasions the Repsol team develops ad-hoc products for a specific application.
## Metalworking industry

<table>
<thead>
<tr>
<th>Sector</th>
<th>Name</th>
<th>Viscosity at 40 °C</th>
<th>Viscosity at 100 °C</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Casting</td>
<td>Maker Empatem</td>
<td>CC-30 G</td>
<td>22</td>
<td>4,7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CC-30 GS</td>
<td>22</td>
<td>4,7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CC-30 H</td>
<td>27</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CC-50 GS</td>
<td>27</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oils that are specially recommended to help remove melted stainless steel ingots from molds after being prepared in the furnace.</td>
</tr>
<tr>
<td>Cutting</td>
<td>Maker Ibercut</td>
<td>20 A</td>
<td>22</td>
<td>4,7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 A PLUS</td>
<td>22</td>
<td>4,7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 C</td>
<td>27</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 A</td>
<td>27</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oils for use in the general machining of steel and alloys.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lubrication in chip removal machining mechanisms.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>They meet ISO 6743/7 category ISO-L-MHE. EDM-2 meets ISO 6743/7 category ISO-L-MHE.</td>
</tr>
<tr>
<td>Grinding</td>
<td>Maker Ibercut</td>
<td>10 AM EP</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 AM</td>
<td>9,5</td>
<td>2,6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 AM</td>
<td>11</td>
<td>2,8</td>
</tr>
<tr>
<td></td>
<td>EDM-1</td>
<td>2,33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>EDM-2</td>
<td>3,3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oils for polishing stainless steel.</td>
</tr>
<tr>
<td>Polishing</td>
<td>Maker Metal</td>
<td>200</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>300</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Rolling</td>
<td>Maker Laminox</td>
<td>1197</td>
<td>10</td>
<td>2,65</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G 3000</td>
<td>7,8</td>
<td>2,3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G 50</td>
<td>4,9</td>
<td>1,7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oils for use in the cold rolling of ferritic and austenitic stainless steel with a low carbon content. It meets ISO 6743/7 category ISO-L-MHB.</td>
</tr>
</tbody>
</table>
## Metalworking industry

<table>
<thead>
<tr>
<th>Sector</th>
<th>Name</th>
<th>Viscosity at 40 °C</th>
<th>Viscosity at 100 °C</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deformation processes</td>
<td>Maker Trefi 68</td>
<td>60</td>
<td>6.5</td>
<td>Oils designed for deformation, stretching, drawing, cupping, shaping, and stamping applications.</td>
</tr>
<tr>
<td>Protection</td>
<td>Maker Antix F</td>
<td>11</td>
<td>3</td>
<td>Oils to protect against corrosion and displace water. It meets ISO 6743/8 category ISO-L-REE.</td>
</tr>
<tr>
<td>Quenching</td>
<td>Maker Ibertem</td>
<td>15</td>
<td>24</td>
<td>Oils for steel quenching, with suitable cooling speeds for the corresponding process.</td>
</tr>
<tr>
<td></td>
<td>15-R</td>
<td>24</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>32</td>
<td>5.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>34</td>
<td>65</td>
<td>8.3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>99-F</td>
<td>215</td>
<td>18.5</td>
<td></td>
</tr>
</tbody>
</table>
### Metalworking Industry

#### Packaging

<table>
<thead>
<tr>
<th>Application</th>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Casting</td>
<td>Maker Empatem CC 30 G</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Empatem CC 30 GS</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Empatem CC 30 H</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Empatem CC 50 GS</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grinding</td>
<td>Maker Ibercut 10 AM EP</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibercut 9 AM</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibercut 12 AM</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutting</td>
<td>Maker Ibercut 20 A</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibercut 20 A PLUS</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibercut 20 C</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibercut 30 A</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical discharge machining</td>
<td>Maker Ibercut EDM 1</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibercut EDM 2</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polishing of metals</td>
<td>Maker Metal 200</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Metal 300</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Metalworking industry

### Packaging

<table>
<thead>
<tr>
<th>Application</th>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
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<th>20 L Drum</th>
<th>5 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rolling and deformation processes</td>
<td>Maker Laminox 1197</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Laminox G 3000</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Laminox G 50</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Trefi 68</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection</td>
<td>Maker Antix F</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Quenching</td>
<td>Maker Ibertem 15</td>
<td>✓</td>
<td>✓</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibertem 15 R</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Maker Ibertem 24</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibertem 34</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Ibertem 99 F</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>
Special applications

The different types of Repsol lubricating oils for special applications are developed to cover most of the industry’s needs in any transformation process. From mold release agents to products for valve control, including ad-hoc developments for the specific uses of large customers.
### Special applications

<table>
<thead>
<tr>
<th>Special applications</th>
<th>Quality Levels</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maker Helen</strong></td>
<td>DIN 51510 – ZA (grade 140) and ZB (grade 240), ISO 6743/12 – Q, ISO 6743/6 – CKB</td>
<td>460, 1000</td>
<td>Oils recommended for use in steam machine cylinders, as well as multipurpose lubrication and gears, or other elements that could operate at high temperatures. They can also be used as heat transfer fluid in open thermal circuits.</td>
</tr>
<tr>
<td><strong>Maker Astra</strong></td>
<td>ISO 6743 / 11 – PAC and PBC Meets the requirements of the main OEMs: Atlas Copco, Ingersol Rand, Gardner Denver, etc.</td>
<td>46, 100, 150</td>
<td>Fluid for the lubrication of drills, hammers, and pneumatic tools that operate in severe conditions, as well as pneumatic mechanisms requiring a product that is able to capture moisture and prevent it from coming into contact with metallic surfaces (demulsification test values of 0-0-80 after 30 minutes).</td>
</tr>
<tr>
<td><strong>Maker Gasholder</strong></td>
<td>DIN 51517 part 2-CL, DIN 51524 - HL, ISO 6743/2 - FC</td>
<td>68, 100</td>
<td>Product specifically designed to coal gas storage tanks. Stands out due to its excellent demulsibility.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special applications</th>
<th>Viscosity at 40 ºC</th>
<th>Viscosity at 100 ºC</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maker Agrocoad 10</strong></td>
<td>8</td>
<td>2.1</td>
<td>Synthetic adjuvant oil for agricultural use.</td>
</tr>
</tbody>
</table>
## Special applications

<table>
<thead>
<tr>
<th>Special applications</th>
<th>Viscosity at 40 ºC</th>
<th>Viscosity at 100 ºC</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Desmoldoil 90</td>
<td>11</td>
<td>3,3</td>
<td>Oils formulated to act as a mold release agent on any type of surface, such as metal or iron.</td>
</tr>
<tr>
<td>Maker Desmoldoil L</td>
<td>24</td>
<td>4,3</td>
<td></td>
</tr>
<tr>
<td>Maker Desmoldoil P</td>
<td>24</td>
<td>4,3</td>
<td>Oils formulated to act as an aluminum mold release agent, thanks to their exceptional oiliness.</td>
</tr>
<tr>
<td>Maker Desmoldoil R</td>
<td>24</td>
<td>4,8</td>
<td>Mold release oils formulated using highly refined mineral base oils and high-quality regenerated base oils that prevent concrete from adhering to formwork.</td>
</tr>
<tr>
<td>Maker Pro 50</td>
<td>11,5</td>
<td>3,2</td>
<td></td>
</tr>
<tr>
<td>Maker Pro 70</td>
<td>25</td>
<td>4,3</td>
<td>Process oils formulated with highly refined paraffinic base oils, which give the product high oxidation stability at high temperatures.</td>
</tr>
<tr>
<td>Maker Pro 100</td>
<td>62</td>
<td>8,1</td>
<td></td>
</tr>
<tr>
<td>Maker Pro 150</td>
<td>100</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Maker Hidraplatform</td>
<td>2,21</td>
<td>-</td>
<td>Hydraulic control fluid with a water/glycol base that is specifically formulated for use in subsea production control systems. It is biodegradable and does not accumulate on marine surfaces.</td>
</tr>
<tr>
<td>Maker Textil 22</td>
<td>22</td>
<td>4,4</td>
<td>Light-colored, low viscosity oil, designed to meet the maximum quality standards of the equipment used in the textile industry without staining the material.</td>
</tr>
</tbody>
</table>
## RANGES

- **Hydraulics**
- **Gears**
- **Turbines**
- **Compressors and refrigeration equipment**
- **Insulating oils**
- **Heat transfer**
- **Circulation**
- **Food Grade**
- **Metalworking industry**
- **Special applications**
- **Gas cogeneration**
- **Multi-purpose**
- **Greases**
- **Biodegradable**

### Special applications

#### Packaging

<table>
<thead>
<tr>
<th>Application</th>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slideways</td>
<td>Maker Zeus Slideway 32</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Zeus Slideway 68</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Maker Zeus Slideway 150</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Maker Zeus Slideway 220</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Steam-powered machinery</td>
<td>Maker Helen 460</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maker Helen 1000</td>
<td>✓</td>
<td></td>
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### Special applications

#### Packaging

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<thead>
<tr>
<th>Application</th>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
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<td>Mold release agents</td>
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<td>Textile machinery</td>
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</table>
Gas cogeneration

Repsol’s range of oils for gas motors covers the needs for this market, adapting to the demands of each type of customer by motor, type of gas, and application.

Repsol’s constant technological innovation has led to a range of lubricants that perfectly meet the needs associated with gas cogeneration.

They offer significant benefits and are approved by the main motor manufacturers (MWM Deutz, INNIO Jenbacher, MAN, Rolls Royce, WÄRTSILÄ, and Cummins). They also meet the technical requirements established by Caterpillar and Waukesha, among others.

Discover all the products in our Cogeneration Lubricants Catalog.
Repsol’s range of multi-purpose lubricants have excellent oiliness and give equipment the protection they need in total loss applications.

It also includes biodegradable fluids that, in addition to protecting the machinery, do not harm the environment.
## Multi-purpose

<table>
<thead>
<tr>
<th>Multi-purpose</th>
<th>ISO Grades</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maker Chain</td>
<td>SAE grade 30 and 40</td>
<td>Fluid for general lubrication in total loss applications. Highly recommended for the lubrication of chainsaws.</td>
</tr>
<tr>
<td>Maker V</td>
<td>46</td>
<td>Fluid for multi-purpose lubrication with excellent oiliness and resistance to aging that is suitable for use in total loss applications or with no high demanding requirements.</td>
</tr>
<tr>
<td>Maker Bio Chain</td>
<td>68</td>
<td>Biodegradable fluid formulated with vegetal-based esters for use as a multi-purpose lubricant or in total loss applications.</td>
</tr>
</tbody>
</table>
## Multi-purpose

### Packaging

<table>
<thead>
<tr>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
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<td>Maker V 46</td>
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<td>✓</td>
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<td>Maker Bio Chain 68</td>
<td></td>
<td></td>
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</tbody>
</table>
Repsol's greases are formulated with cutting-edge additives to cover all the market's needs.

The range of products developed includes multi-purpose greases to meet the lubrication requirements of the majority of facilities, as well as special products designed to work in highly demanding conditions due to the loads, temperatures, or environmental contamination.

Meeting the specifications set by the most stringent quality regulations and standards, thanks to their exclusive formula our greases deliver excellent performance in all types of machinery, increasing their service life and providing extra reliability, making Repsol's greases the best investment for your business.

Discover all the products in our Greases Catalog.
Biodegradable

Repsol’s oils for biodegradable products are designed with the challenges facing the industry in mind.

An industry that faces increasingly demanding environmental regulations and requires biodegradable products that do not pollute the environment where they are being used in the event of an accidental spill, also guaranteeing the performances required by the machinery.
## Biodegradable

<table>
<thead>
<tr>
<th>Range</th>
<th>Products</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic</td>
<td>Maker Bio Telex 32, 46 and 68</td>
<td>Synthetic and biodegradable fluid designed to replace conventional oils. EcoLabel-certified product. ISO HEES.</td>
</tr>
<tr>
<td>Multi-purpose</td>
<td>Maker Bio Chain 68</td>
<td>Formulated with vegetal-based esters for use as a multi-purpose lubricant or in total loss applications.</td>
</tr>
<tr>
<td>Insulating oils</td>
<td>Maker Bio Electra and Maker Bio Electra Synth</td>
<td>Biodegradable oils allow for higher safety and provide excellent dielectric performance. BIOELECTRA is made using specifically selected plant-based base oils, which gives this product exceptional oxidation stability. BIOELECTRA SYNTH is designed for extremely cold climates.</td>
</tr>
<tr>
<td>Grease</td>
<td>Biograsa Cálcica EP 2</td>
<td>Formulated using biodegradable products for use in situations where leakages or spills are a possibility, such as dam floodgates, agricultural machinery, or forest work. EcoLabel-certified product.</td>
</tr>
</tbody>
</table>
## Biodegradable

### Packaging

<table>
<thead>
<tr>
<th>Product</th>
<th>Bulk</th>
<th>1000 L Container</th>
<th>208 L Drum</th>
<th>20 L Drum</th>
<th>5 L Bottle</th>
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<tr>
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</table>
Cement industry
Continuous casting and hot rolling industry
Chemical, refining, fertilizer and industrial gas industries
Power generation
Mining Industry, quarrying and aggregates industry
The characteristics mentioned in this catalog are typical values and cannot be considered product specifications.