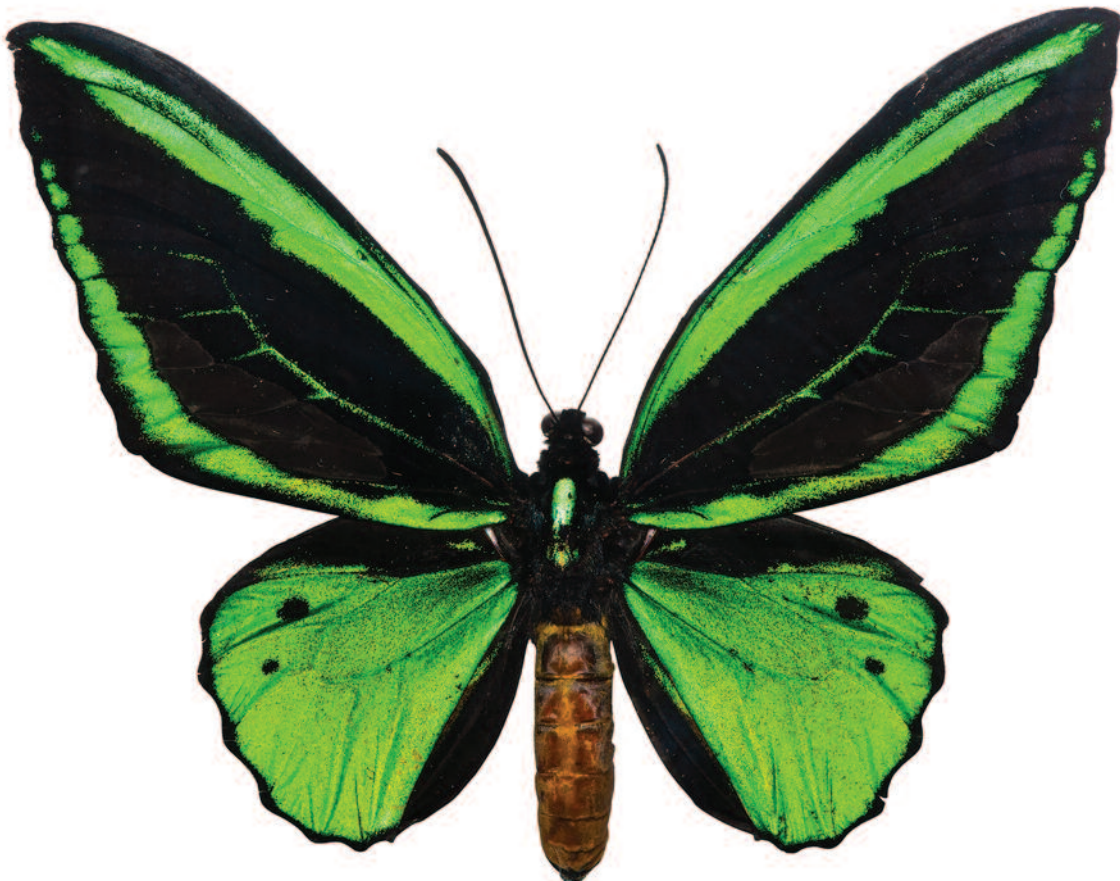


Q8 Oils

drawing & rolling solutions

*wire
rod
bar
strip
tube
profiles*



drawing & rolling solutions for wire & tube

Our drawing & rolling solutions are the result of more than 100 years of product development and application experience. Our chemists and engineers take a unique, innovative and progressive approach to develop different products for different applications.

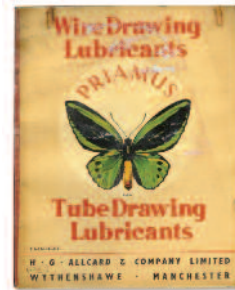
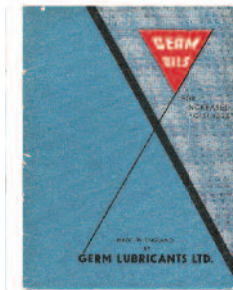


We develop smart products that extended die and roll life to significantly reduce operating costs, while staying a step ahead of the new demands arising from customer productivity, OEMs, materials and legislation.

The products are marketed under Q8Oils and exported to customers in over 85 countries worldwide either directly or through our network of specialised distributors and agents. This makes us one of the largest global suppliers to the rod, wire, bar, strip, tube and profile industries.

Our products are suitable for all machinery and carry approval and recognition from many machinery OEM's.

Our brand of Germ-Allcard has a historic pedigree for wire and tube with a combined heritage of over 200 years' experience for specialised products to the wire and tube sector.



Over 200 years combined experience in drawing lubricants

We are also a founding member of the International Wire & Machinery Association (IWMA) which is a leading corporate worldwide association www.iwma.org



we have been helping our customers grow their business for over 100 years

Priamus **Profile** **Wirol**
Technical Service **Added Value**
Stranding **Productivity** Multiwire Filtration ISO
Innovation **Cyldol** Published Papers **Equipment** Stainless Lubrication
Network Super Fine **Performance** Annealing Approval
Fastener
Compaction **Expertise** Reduce breaks **Tantaroll** Cable Stability
Synthetic Metal **Reduce Costs** **Copprotect** IWMA Assurance Fine Legislation
Steel Emulsion Precious Lubricant
Support Worldwide **Cleanliness** OEM Germ-Allcard
Die Life **Environment**
Cyldraw Conductor Grease Wax-Coat Training
Drawing Aludra Strip Nickel Rod Handbook
Emulsion Life Enamelled Silver Oils Roloil Copper
Wire **Health & Safety**
Rolling **Protection** **Cylroll** Tin
Aluminium **Tube** Twin Rod Magnet Wire



research & development

New product development is at the heart of Q8Oils' business. Q8Oils research ensures continuous technological innovation, utilising feedback from the industry, OEM's, as well as legislative bodies, Q8Oils' team of scientists, chemists and product application engineers combine their extensive knowledge of lubricants to develop new products and to upgrade the technology of existing.

Every department of Q8Research works in close harmony to create a single unit of expertise. This experience enables Q8Research to offer a consultancy service for many other aspects of the lubricants industry such as safety, security, health, environment (SSHE), market intelligence, legislation and training.

With our holistic approach to lubricant research and product development, Q8Research is ideally placed to provide the very best support to our customers.

Q8Research is the focal point of Q8's SSHE culture and we have extensive knowledge in product data and material handling. Our team includes specialists in REACH (Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals)

We offer our customers and partners information & documentation in more than 40 languages, helping them to comply with the legislation of their region.

Q8Research has established a reputation as the partner of choice for OEMs, industry bodies and educational institutions, when advice is needed on legislation or compliance issues in their industry.

Q8Oils can assure our customers of the back-up and support they expect from one of the most established brands in the wire and tube industries.

The lubricant is perhaps the smallest cost item in the process but remains one of the most influential in terms of overall production and performance of the production process.

Training

Our extensive training programmes cover many aspects of the lubricants industry which includes wire & tube. Training is carried out at our research and development laboratories, which have specially equipped facilities. Alternatively, our lecturers can run training courses on site, in factory or office anywhere in the world.

Support

Technical Service and Support is to assist the customer maintaining the product to deliver the best performance in the application, our technical support can include all aspects of the process and not just Condition Monitoring Analysis. (Fig 1).

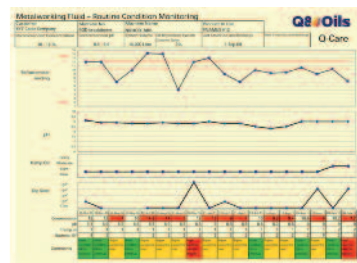
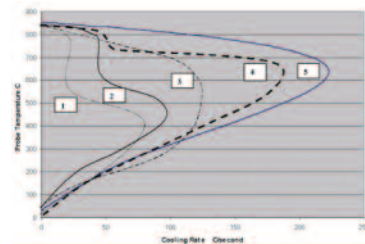


Fig 1

- Product Selection
- Emulsion Preparation and Water Quality Advice
- Comprehensive Emulsion Condition Monitoring
- Emulsion Lubrication, Evaluation and Advice
- Rolling Emulsion Quench Analysis
- Health and Safety Advice
- Training
- Emulsion Disposal Advice
- System Design and Filtration Recommendations
- Equipment Recommendations
- Technical Helplines
- Local Stock, Expertise and Support



Rolling emulsion quench analysis



smart engineering solutions

The consistency of the lubrication with newer generation copper wire drawing lubricants can be demonstrated and proven with both laboratory analyses and in live factory applications.

Under controlled identical conditions product technologies can be cross-referenced and compared in our laboratories. Artificial aging under set criteria provide very stringent conditions for wire drawing emulsion evaluation and analyses. The unique co-efficient of friction equipment used to determine the wire to capstan lubrication film performance is also used through the emulsion testing. (Fig 2)



Fig 2

This equipment is the only test method which utilises actual wire drawing equipment to measure a drawing emulsion's lubricating performance and can be considered a more powerful result than more traditional oil industry lubrication test methods such as Falex, Reichert or Cameron Plint.

The results from an artificial aging process can demonstrate differences from one technology of wire drawing lubricant to another. The lubrication level is monitored to determine if the performance is consistent throughout the emulsion life. This is compared with the tail off in lubrication performance commonly seen with lesser quality products. (Fig 3)

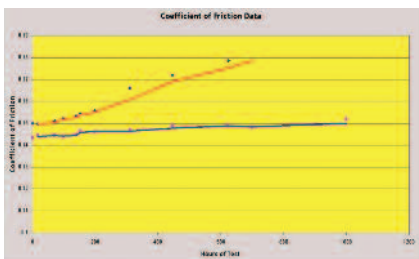
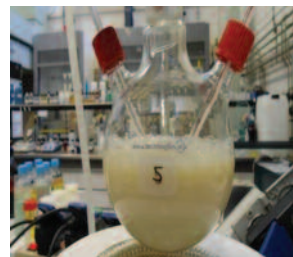
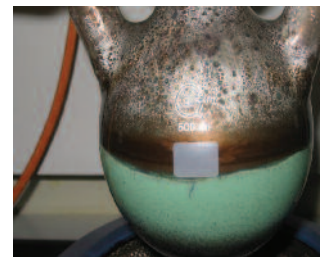


Fig 3

A combination of products and application knowledge, research and development capabilities and a world wide presence makes Q8Oils the perfect business partner. Our mission is to be the product and solution providers by continuing to invest in the rolling and drawing lubricant technology that will protect the long term profitability of our customer and the environment.



Germ-Allcard Priamus X10
1680 hours



Competitor product 1200 hours

Productivity

The simple way to increase the productivity of a wire drawing emulsion is to evaluate the process in several steps of the life of the product.

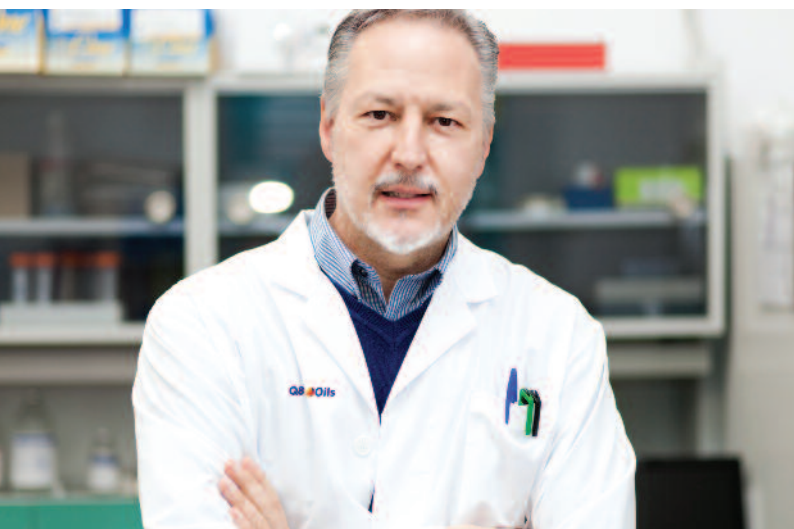
Evaluation Steps

1. Drawing Lubricant Technology
2. Housekeeping of the Emulsion System
3. Performance of the Drawing Emulsion
4. Technical Support by the Supplier.
5. Evaluation of Disposal Techniques and Costs

Simple measures together with Emulsion Condition Monitoring can increase emulsion life, save costs and improve the working environment of the drawing machine.

This means cleaner drawing dies and longer die life, a cleaner machine, increased speed and output of the machine.

All of these points provide money saving by simple techniques often overlooked by wire drawing companies. The wire drawing emulsion is most probably the smallest cost item of the wire drawing process but is the most influential to the productivity of the machine.





copper wire drawing

The Germ-Allcard copper wire drawing lubricants are formulated to provide the optimum balance of lubrication and cleanliness. This balance provides greater die and capstan protection, long emulsion life and consistent production eliminating manufacturing downtime.

Priamus X7

Semi Translucent Emulsion

Priamus X7, is a semi-synthetic lubricant optimised for copper rod breakdown and intermediate drawing on all high speed slip machines and is suited for rolled, cast, or dipform rod and is also recommended for shaved rod and small section copper strip.

Priamus X255

Semi Translucent Emulsion

Multipurpose, semi-synthetic wire drawing lubricant, Priamus X255 is suitable for drawing all wire sizes from rod to fine wire, on all types of wire drawing machines and is especially suited for multi-wire machines and in-line drawing.

Priamus X10

Semi Translucent Emulsion

Multipurpose semi-synthetic product suitable for the drawing of all wire sizes from rod to fine wire for both copper and aluminium on all types of drawing machines; it is also suitable for both multi-wire and in-line drawing machines. The low reactivity of Priamus X10 results in excellent cleanliness and exceptionally long life even at elevated operating temperatures.

Priamus X11

Semi Translucent Emulsion

A semi-synthetic lubricant suitable for drawing all copper wire sizes from rod to fine wire on all types of drawing machines. It is also especially suitable for both multi-wire and in-line drawing enamelling machines.

Priamus V12

Semi Translucent Emulsion

Multipurpose semi-synthetic wire drawing lubricant, Priamus V12 utilises the latest synthetic ester technology to give excellent cleanliness and low reactivity.

Priamus X13

Semi Translucent Emulsion

Priamus X13 is a latest generation lubricant for copper wire drawing in all sizes from rod to fine on slip and non-slip machines. Utilising the latest additive technology, improvements in both lubrication and cleanliness can be achieved hence promoting the highest drawing machine productivity. The emulsion has a high detergency to keep the machines and drawing dies clean. Priamus X13 is suitable for make up in both soft and medium hardness waters and oxidation test results confirm a clean long life.

Wirol 5000

Semi Translucent Emulsion

Wirol 5000, a semi-synthetic lubricant is optimised for drawing plain and tinned copper wire of intermediate, fine and superfine sizes on single and multi-line machines. Independent tests show that Wirol 5000 can reduce tension breaks on multi-line machines by approx 40% compared with other products in identical conditions.

Wirol 2000 LFG

Clear Solution

Wirol 2000 LFG is a synthetic product recommended for drawing of intermediate and small wire sizes of plain and tinned wire on both single and multi-line machines. Wirol 2000 LFG is especially recommended for drawing or rolling wire for enamelling. Further specialised applications include nickel plated and silver plated copper wires. Strip and section cold rolling is also possible with Wirol 2000 LFG.

Wirol 2150

Clear Solution

Wirol 2150 is a full synthetic product recommended for the drawing of intermediate, fine and superfine copper wire. It is also suitable for plated copper including nickel plate. Wirol 2150 is a high lubricity product and clean in use.

Wirol 2020

Clear Solution

Wirol 2020 is a synthetic, very high lubricity product recommended for drawing of intermediate, fine and super fine wire sizes of plain and tinned copper in all applications, single and multiwire. Wirol 2020 is especially recommended for the tandem in-line drawing or rolling for enamelling. Further specialised applications include the drawing of nickel plated and silver plated copper wires as well as the drawing of precious metals.

Wirol 2200

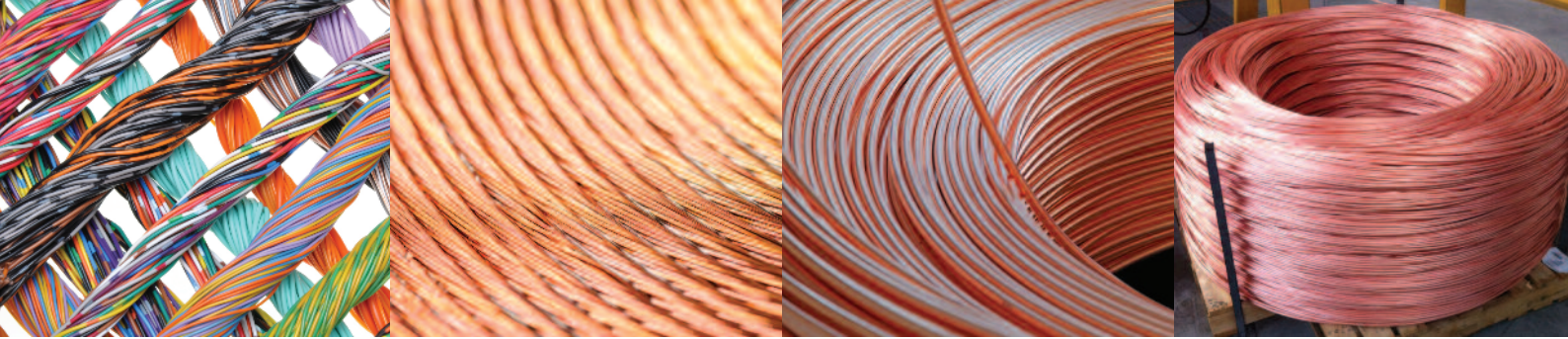
Clear Solution


Wirol 2200 is a full synthetic product recommended for the drawing of intermediate, fine and super fine wire of both copper and aluminium, it is also recommended for the drawing of plated wires such as tin, silver and nickel plate as well as precious metals. Wirol 2200 has exceptional lubrication properties over current products of over 15% improvement and can provide a long consistent solution life.

annealing fluid

Annealer Fluid LF

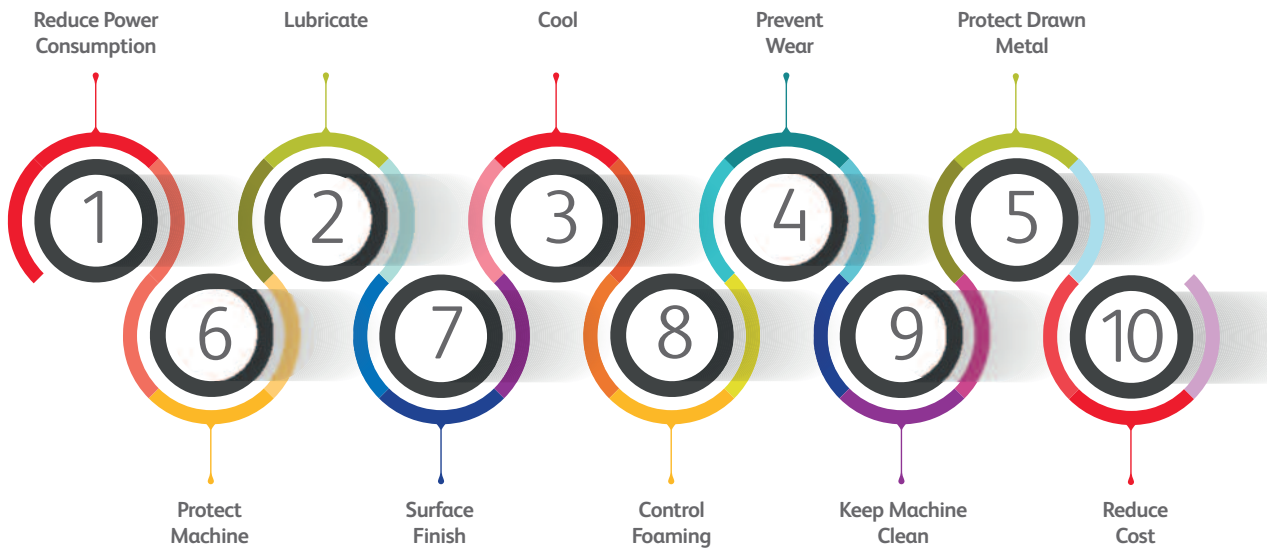
Annealer Fluid LF is a fully synthetic, water-soluble additive that is entirely free from mineral oil and conventional fatty soaps. Annealer Fluid-LF is recommended for use in the cooling water of continuous annealers for both plain and tinned copper wire production.

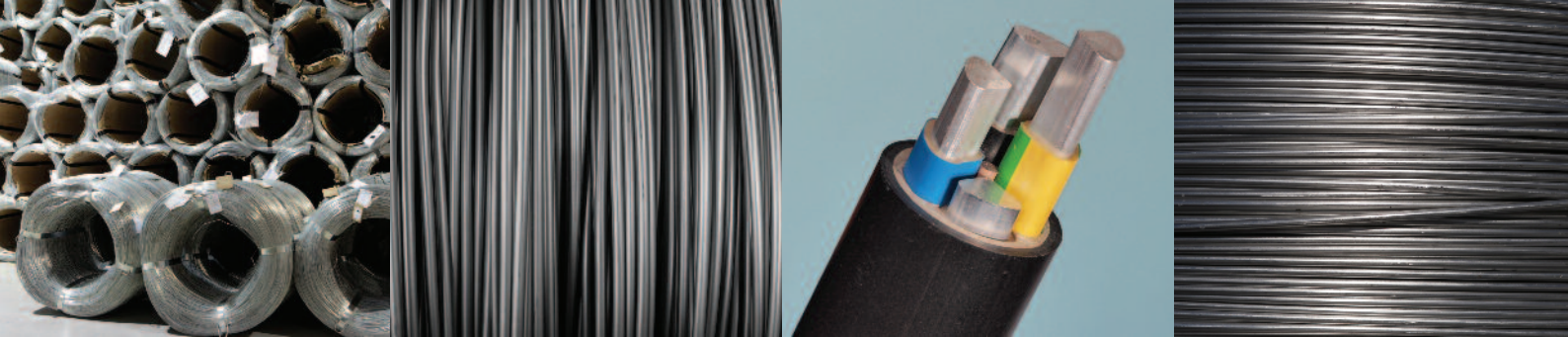


Germ-Allcard Products	Operation														Material	
Priamus X7																
Priamus X255																
Priamus X10																
Priamus X11																
Priamus V12																
Priamus X13																
Wirol 5000																
Wirol 2000 LFG																
Wirol 2150																
Wirol 2020																
Wirol 2200																
	Rod	Intermediate	Multewire	Fine Wire	Super Fine	Shaving	Continuous Annealers	Copper	Tinned Copper	Brass	Bronze	Gold	Platinum	Silver	Nickel	

Further advice is available from your representative or our technical department.

lubricant functions





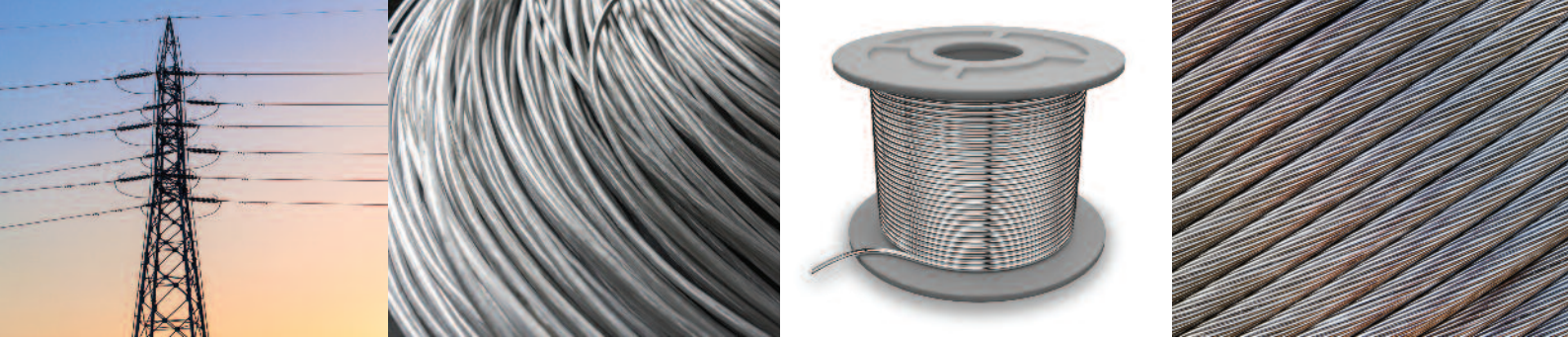
aluminium wire drawing

Germ-Allcard provide a range of products for the drawing of Aluminium and Aluminium alloys, these products are suitable for slip, limited slip and non-slip drawing applications in high and slow speed wire drawing machines. Lubricants for the drawing of Single or Twin Rod, Intermediate, Fine and Super Fine applications are available and these provide benefits of long lubricant life and enhanced brightness of the drawn aluminium. Within our range we can offer options to our customers, either to use a NEAT or SOLUBLE OIL for the drawing applications.

Aludra 30 30	A low viscosity oil with high oxidation stability for the drawing of aluminium and aluminium alloy in Medium and Fine wire sizes on slip machines, it is also suitable for shaving applications and for use as a finishing die lubricant to facilitate a cleaner and brighter surface wire finish.
Aludra 150 150	A medium viscosity oil with high oxidation stability for the drawing of aluminium and aluminium alloys for Rod and Intermediate applications, it is also suitable for high speed slip and non-slip machines drawing shaped conductors and processing shaved rod.
Aludra 200 200	A high viscosity oil with high oxidation stability for the drawing of aluminium and high magnesium/silicon content aluminium alloys. Aludra 200 can draw all conductor wire, welding wire, rivet wire and handle a variety of obscure applications. It is also suitable for cold heading applications for fasteners and rivets as well as tube drawing applications from 20mm to capillary sizes.
Aludra 3993A Conc	A low viscosity lubricity additive for lubrication in aluminium stranding and compaction applications where it is used to provide residual lubrication within the compaction die. The product has vanishing properties hence leaving no residues on the compacted conductor. It can also be used as a lubricity booster for the Aludra range when drawing oils become contaminated with tramp oils.
Aludra X35 35	Latest technology low viscosity oil with high oxidation stability for the drawing of aluminium and aluminium alloys in medium and fine wire sizes on slip machines. Aludra X35 is free from added chlorinated paraffins hence a safer product in use and meeting the latest worldwide requirements.
Aludra X170 170	Latest technology medium viscosity drawing oil for the drawing of aluminium and aluminium alloys in rod and intermediate applications on slip and non-slip machines Aludra X170 is free from added chlorinated paraffins hence a safer product in use and meeting the latest worldwide requirements. Aludra X170 is also suitable for the drawing of shaped conductors and processing shaved rod.
Priamus X10	A semi-synthetic water soluble product which forms an emulsion for the high speed drawing of aluminium, aluminium alloys and copper. Priamus X10 is clean in use and provide exceptional lubrication to the drawing dies. The emulsion can provide high speed optimum productivity of the drawing machine with customers running twin rod at 35 metres per second.
Priamus X255	A semi-synthetic water soluble product which forms an emulsion for the high speed drawing of aluminium, aluminium alloys and copper. Priamus X255 is clean in use with a unique lubrication property.

Germ-Allcard Products		Operation					Material	
Aludra 30	Neat							
Aludra 150	Neat							
Aludra 200	Neat							
Aludra 3993A Conc	Neat							
Aludra X35	Neat							
Aludra X170	Neat							
Priamus X10	Soluble							
Priamus X255	Soluble							
		Rod	Intermediate	Multewire	Fine Wire	Super Fine	Shaving	Aluminium Alloy





Neat

Germ-Allcard ALUDRA which is a range of neat drawing oils are formulated using high quality base oils which have exceptional characteristics of high oxidation stability and low sulphur levels. These properties promote a longer lubricant life, reduced top up and a brighter surface finish to the drawn aluminium. The ALUDRA products are also enhanced with synthetic lubricity additives and performance additives to provide lubrication and protection to the dies and capstan surfaces.

Soluble

The latest generation of Germ-Allcard PRIAMUS soluble oils are very successful for the high speed drawing of Aluminium and Aluminium alloys. These emulsions provide substantial benefits over the use of neat oils for the aluminium drawing application in both high and slow speed applications. The Germ-Allcard PRIAMUS products are clean in use, provide exceptional cooling and promote a very clean drawn wire surface. These soluble drawing oils compliment the Germ-Allcard CYLROLL, hot rolling emulsions for aluminium thereby keeping a clean rod and wire throughout the rolling and drawing process.

The significant benefits of using a drawing emulsion over a drawing oil are listed as follows:

- Low cost purchase and investment by the customer compared to neat oils
- Increased productivity of the wire drawing machine
- Increased speed
- A cleaner wire, machine and system
- Operator acceptability
- Improved heat removal
- Better lubricant control
- Improved die life
- Improved surface finish
- Reduced drag out reducing waste
- Reduced operating costs
- Less disposal cost
- Easy maintenance
- Easy filtration
- Easy temperature control

aluminium conductor grease

Q8 Reynolds OC 150

Q8 Reynolds OC 150 is a high performance inorganic grease specially developed to protect overhead conductors from corrosion, oxidation and surface fretting ensuring a prolonged service life. It has outstanding high temperature properties, excellent adhesion and extreme low oil bleeding characteristics. Q8 Reynolds OC 150 is a cold applied product for the use on aluminium and aluminium alloy conductors and has a typical drop point of over 240 degrees centigrade.

Specification:

IEC61394:2011, EN50326:2002 type 20 A 150, EN50326:2002 type 40 A 125





non-ferrous rolling

The Germ-Allcard range of emulsifiable oils form stable and highly effective emulsions for the hot and cold rolling of non-ferrous rod and strip. The range includes specific grades for hot rolling continuously cast copper and aluminium on Southwire, Contirod and Properzi mills. Complementing the range are the Q8 Bach R Series Neat Rolling Lubricants for strip production.

Cylroll CR55	Heavy duty rolling oil for aluminium and copper. Specially developed for roughing mill applications. Enhanced to stop oxides adhering to the roll surface and flush the loose scale to the filters.
Cylroll CR65	Synthetically fortified rolling oil for copper. Specially developed for finishing mill applications. Enhanced to stop oxides adhering to the roll surface and flush the loose scale to the filters. Provides superior roll life performance, protection and give increased productivity.
Cylroll CR75	A heavy duty rolling oil specially developed for the rolling of copper rod in roughing applications and suitable for all mill types. A robust emulsion with enhanced oxidation properties ensure a longer life in running and delivering the highest quality of copper rod and cleaner work rolls.
Priamus X10	Multipurpose, semi-synthetic rolling lubricant, the low reactivity of Priamus X10 results in excellent cleanliness and exceptionally long life even at elevated operating temperatures.
Priamus X255	Multipurpose semi-synthetic rolling lubricant, Priamus X255 has the high lubricity and cleanliness required for difficult rolling applications for rod, strip, wires, tubes and profiles.
Wirol 2020	Wirol 2020 is a fully synthetic, oil free product recommended for cold rolling applications of fine and super fine wires, strip, profiles and section. Multi-materials include copper, tin plate, nickel plate, silver plate and all precious metals.
Q8 Bach R Series	A speciality range of superior performance neat rolling oils for the cold rolling of strip, the products cover the rolling of steel, stainless steel and all yellow metals.

Germ-Allcard Products	Mill Type										Material								
	Contirod	Southwire	Properzi	Senior	Buhler	Fives DMS	Sundwig	Frothing	Demag	Achenbach	Hitachi	Copper	Aluminium	Brass	Bronze	Stainless	Steel	Nickel Chrome	Titanium
Cylroll CR55																			
Cylroll CR65																			
Cylroll CR75																			
Priamus X10																			
Priamus X255																			
Wirol 2020																			
Q8 Bach R Series																			

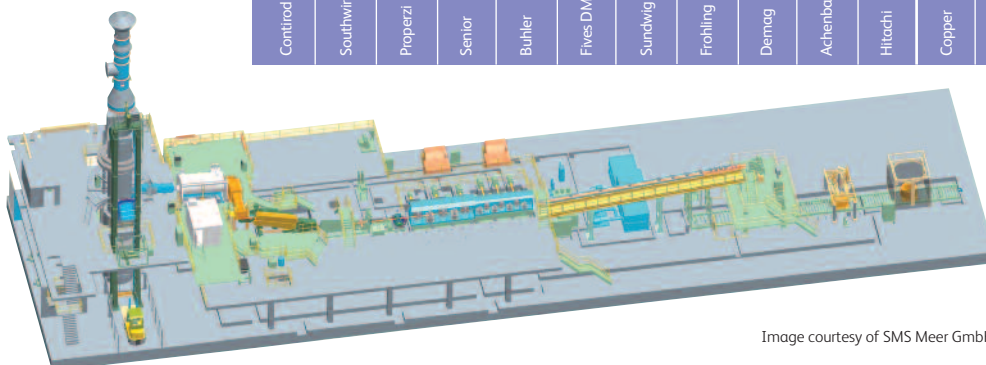


Image courtesy of SMS Meer GmbH



yellow metal protectives

These are specialised products for the increased protection of yellow metals. They include wax-coat protection of hot rolled continuously cast and upcast copper as well as quenching protection products for copper and alloy hot extrusion of tubes and profiles.

Copprotect H

Copprotect H is an oil free tenacious yellow metal protective coating specially developed for humid environments, this "waxcoat" is dipped or spray applied using automatic or manual equipment at 1 % to 4 % concentration in water onto non-ferrous rod or wire to provide a protective film. In addition, the lubricity properties associated with Copprotect H are particularly effective in aiding spooling or coiling and subsequent wire pay-off.

Copprotect Z

Copprotect Z can be used in virtually any system or environment where the requirement is to prevent the corrosion of copper ions in accelerating the degradation of other metals or components. It can be used at various concentrations ranging from 0.05 % in water.

tube drawing

With the two ranges of non-ferrous tube drawing lubricants from Germ-Allcard are advanced lubricants for Bench and Block drawing of copper, aluminium and alloy tubes.

Cyldraw E Series

Synthetic based lubricants for the drawing of very hard speciality copper alloys including beryllium copper.

Cyldraw 6000 6000

Single Shot high viscosity non-ferrous tube drawing lubricant for drawing all sizes of tube, optimum lubrication and surface finish is achieved.

Cyldraw 1900C 3400

Single Shot medium viscosity non-ferrous tube drawing lubricant, multipurpose product for all tube applications.

Cyldol OC32 210

Cyldol OC32 is used for drawing copper and copper alloy tubes from shells to finish sizes on draw benches and bull blocks. It is also especially suited for final die lubrication and finishing applications on Schumag equipment. Cyldol OC32 is a medium viscosity neat lubricant with superior friction reducing characteristics and bright annealing properties developed for use in extremely humid environments.

Cyldol TBL 29

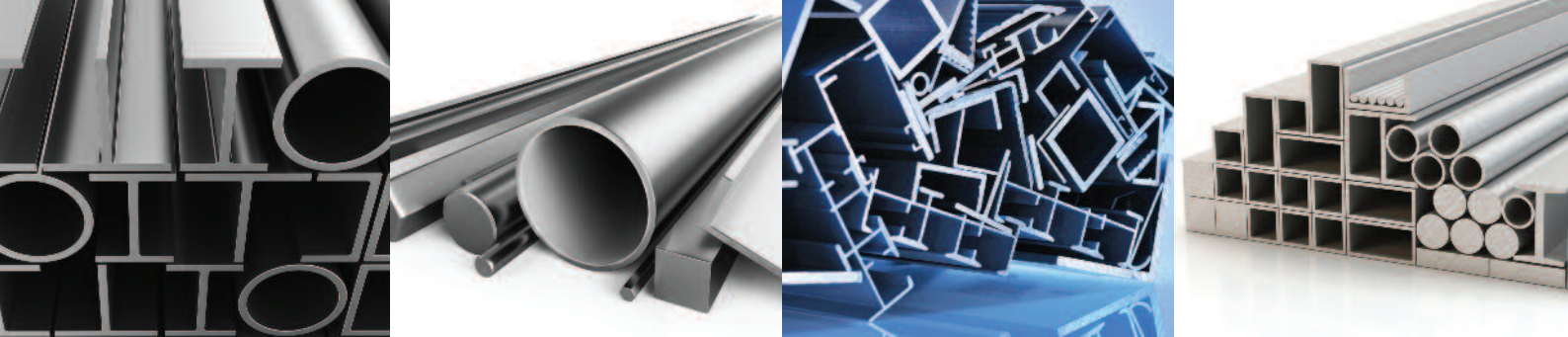
Cyldol TBL is a low viscosity neat lubricant with superior friction reducing characteristics and exceptional bright annealing properties. Using selected polymeric additives and boundary lubricants Cyldol TBL achieves an excellent tube surface finish, whilst promoting good die life. Annealing characteristics are achieved by use of a uniquely processed mineral oil.

Aludra

30, 150, 200, X35, X170

Lubricants for the drawing of aluminium and aluminium alloys in circulatory lubrication systems, drawing all sizes from large to capillary tubes.

Germ-Allcard Products	Operation	Tube OD Size						Material						
Cyldraw E Series														
Cyldraw 6000														
Cyldraw 1900C														
Cyldol OC32														
Cyldol TBL														
Aludra														
	Drawbench	Block	>500mm dia.	500-25mm	25-10mm	<10mm	Capillary	Copper	Copper Alloy	Aluminium	Aluminium Alloy	Brass	Bronze	Precious Metals



welded tubes & profiles

Q8Oils develops, manufactures and markets a range of soluble lubricants for the rolling of welded (ERW) tubes and profiles. The tubes and profiles are formed and rolled to size in a variety of materials including steel both hot and cold rolled (black and bright), alloy steels, aluminium and stainless steel (INOX).

Welded Tubes (ERW) – The Process

The tubes, ERW, Electrically Resistance Welded, are formed in a continuous process from flat strip through a series of rolls to cold form the strip into a tubular shape. The tubular shape is then welded by an electric resistance welder which will complete the edges of the shape to form a tube, the tube is then rolled to the desired dimension, shape and surface finish requirement. Throughout the process a soluble oil emulsion is used to provide both cooling at the weld and lubrication of the tube forming and rolling process.

Q8Oils Rolling Solutions

Q8Oils have leading water soluble products and work closely with customers, many of which are larger ERW Tube forming companies. Working together with our customers we have developed new technology and environmentally friendly products to make improvements to our customers process which meets their production and environmental targets.

Whichever the material, the rolling speed, the tube size, the final shape, the surface finish requirements. Q8Oils has the solution for the customer.

- Our products are clean in use, protecting both the tube and work rolls throughout the rolling mill process by flushing fines from surfaces to the filter system.
- Our products are resistant to bacterial infection also tramp oil rejecting to prolong the life and performance of the rolling emulsion.
- With our experience of the customer process, Q8Oils can develop and tailor products to specific customer requirements
- Q8Oils have a range of supporting products for the process including specialised anti-corrosion products, greases and plant maintenance lubricants.
- Q8Oils provide technical support and after sales service.

Q8 Berlioz and Q8 Brunel products are recommended for the forming and rolling process.

- Semi-synthetic and full synthetic rolling solutions and products can also be developed to specific customer requirements.
- Suitable for use of both soft and very hard water qualities
- TRGS 611 compliant
- Boron and formaldehyde free products to meet the latest legislation.

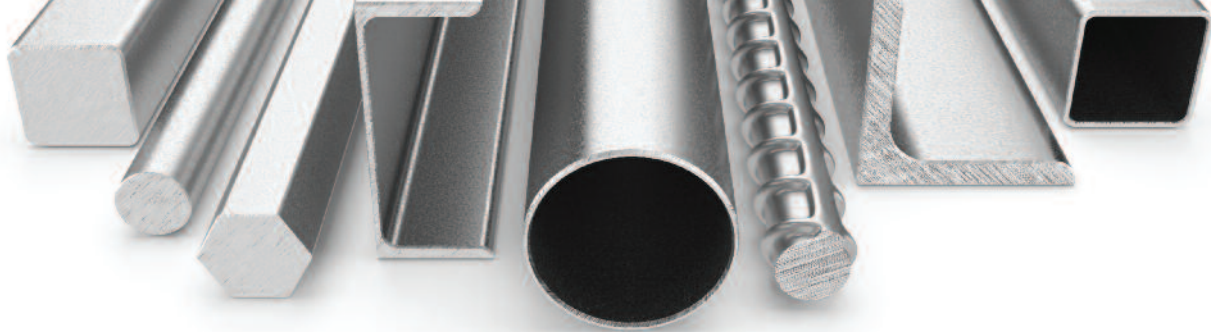
Q8 Berlioz XAD	A semi-synthetic emulsion for the rolling of all tube types, free from formaldehyde release biocides.
Q8 Berlioz XRC	A semi-synthetic low oil content emulsion for the rolling of all tube materials and sizes, the emulsion is free from formaldehyde release biocides.
Q8 Brunel XF 111	Latest technology semi-synthetic low oil content emulsion which is free from boron and formaldehyde release biocides.

Scudo products are recommended for the corrosion protection of welded tubes.

Scudo 3 C	Protection for ferrous pipes, profiles, sheets, strip, bars, rods and other mechanical parts during stock.	Humidity Cabinet Test ASTM D1748 >1900Hrs.
Scudo 2 GFK	Medium term protective for multi material tubes.	Humidity Cabinet Test ASTM D1748 450 hrs
Scudo 7 GFK	Long term protective specifically for black tubes.	Humidity Cabinet Test ASTM D1748 1200 hrs
Scudo 20	Long term protective for multi material tubes.	Humidity Cabinet Test ASTM D1748 1000 hrs
Scudo 35	Multi-purpose anti-corrosion product.	Humidity Cabinet Test ASTM D1748 1100 hrs

Please consult Q8Oils for more information and advice as based on your specific requirements there are many products available.

Ancillary Products including, system cleaners, biocides, pH buffers & antifoams are available on request.



stainless steel bar, rod, wire, section, profile

The Germ-Allcard Tantaroll grades are speciality products for the wet drawing of stainless steel, nickel alloys and alloyed steel bars, rod, wire, section and profiles, the grades utilise the latest additive technology to provide environmentally friendly products meeting the latest legislation.

The Tantaroll range provides products for the severe heavy duty drawing to moderate applications and are offered in a range of viscosities and additive technology. The range of products provide the optimum lubrication and anti-wear required for difficult applications providing a high die life at both slow and high speed drawing.

The Tantaroll range also includes specialised products for the medical market which are animal derivative free.

Tantaroll XN

The Tantaroll XN is a non-active range of products for the drawing of stainless steel medium and fine wires, being free from chlorinated paraffin's and having a high safety profile the XN range is also suitable for medical wire applications. The choice of product can be dependent on the wire sizes and wire speeds.

Available in viscosities of 6, 10, 15, 28 and 36cS Kv40.

Tantaroll XS

The Tantaroll XS range is a heavy duty active range of products for the drawing of stainless steel and alloy steel, free from chlorinated paraffin's and based on very high quality base oils (Group III) this range provides a superior drawing performance with exceptional oxidation resistance and long life.

Available in viscosities of 16, 24 and 44 cS Kv40.

Tantaroll XA

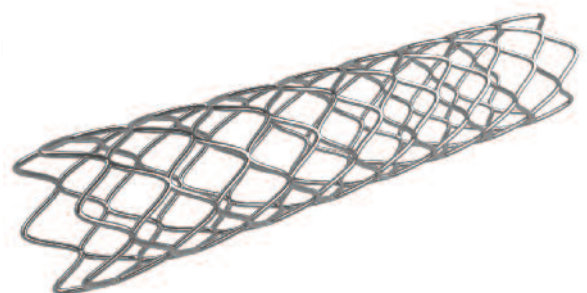
The Tantaroll XA range is a heavy duty active range of products for the severe drawing applications of bar, rod, wire, section and profiles of stainless steel and alloy steel. Being free from chlorinated paraffin's the range has a very high safety profile. The extreme pressure performance of this range can outperform chlorinated products and is suitable for slow and high speed drawing applications.

Available in viscosities of 68, 100, 220, 420 and 680 cS Kv40.

Tantaroll

A high viscosity high performance drawing oil for the most severe applications of bar drawing.

Please consult Q8Oils for more information and advice as based on your specific requirements there are many products available.





ancillary products

Within the Q8Oils range of Metal Manufacturing products there is a comprehensive range of ancillary products to assist and support our customers.

- System Cleaners
- Biocides
- Antifoams
- pH Buffers
- Protectives for copper alloys and steel
- Emulsifiers

worldwide supply

Q8Oils metal manufacturing fluids are used by customers in more than 85 countries around the world.

Americas
Europe
Africa
Middle East
Asia
Australasia



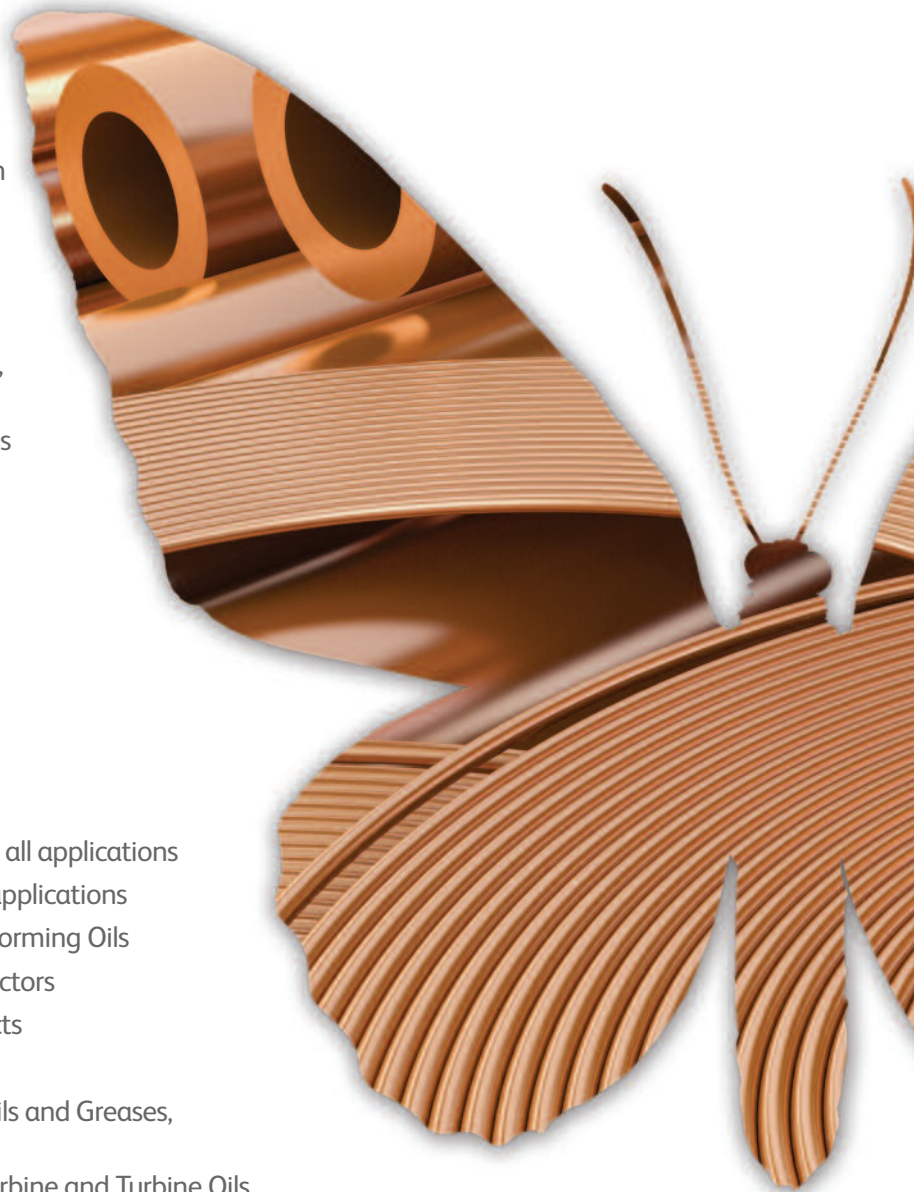


product portfolio

Q8Oils product portfolio consists of over 1,000 grades of finished lubricants, this comprehensive range makes Q8Oils one of the most complete suppliers of lubricants and petroleum based products in the industry.

For the Metal Manufacturing Industries, our product range includes the following:

- Wire Drawing Lubricants for Copper, Aluminium and all other Non-Ferrous Metals
- Full Synthetic Wire Drawing Lubricants for Fine and Super fine sizes
- Rolling Emulsions for the Hot Rolling of Continuously Cast Copper and Aluminium
- Yellow Metal Protective for Hot Rolled Copper, and all other Copper Applications
- Tube Drawing Lubricants for Copper, Aluminium and all other Non-Ferrous Metals
- Tube Rolling and Drawing Lubricants for Welded Tubes, Steel and Stainless Steel
- Stainless Steel Drawing Oils
- Rolling Emulsions for the Cold Rolling of Copper, Aluminium and other materials
- Cold Rolling Oils for Stainless Steel, Copper, Brass and Phosphor Bronze
- High Temperature Chain Oils for Production Conveyor Systems
- Heat Treatment Oils and Emulsions
- Wire Rope Lubricants and Greases
- Casting Lubricants
- Corrosion Protectives for all Metals
- Greases
- Morgan Bearing Oils
- Soluble Metalworking Fluids for Metal Removal, all applications
- Neat Metalworking Oils for Metal Removal, all applications
- Neat and Soluble Pressworking, Punching and Forming Oils
- Vanishing Pressforming Oils for Electrical Connectors
- Biodegradable and Renewable Resource Products
- Wash Fluids
- Comprehensive Range of Plant Maintenance Oils and Greases, including Danieli approved Products
- Energy Products, including Gas Engine, Wind Turbine and Turbine Oils
- Technical Services and Support for all our Products



about Q8Oils

Q8Oils is part of the Kuwait Petroleum Corporation (KPC), one of the world's largest oil companies. With 120 years of known reserves and crude oil production levels of 2.9 million barrels per day, it is ranked the seventh largest oil producer in the world. KPC's business spans every segment of the hydrocarbon industry: on and offshore exploration, production, refining, marketing, retailing, petrochemicals and marine transportation.

Backed by the significant corporate resources of our parent company, Q8Oils is a fully integrated lubricants organisation. Using high quality base oils we manufacture an extensive range of oils in our own blending plants and have established state of the art European laboratories for development and technical support work. Today, Q8Oils metal manufacturing fluids are used by customers in more than 85 countries around the world.



Q8  **Oils**

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