

Metal Working Fluids

Performance Solutions
From The Leaders In
Metal Working Fluids



YES WE CANSM

 **MacDermid**
Industrial Solutions

A Versatile Metal Working Fluids Portfolio

From the most trusted name in metal finishing comes a complete portfolio of high performance, environmentally friendly metal working fluids, engineered to perfectly match any machining operation.

MacDermid Metal Working Fluids are a natural extension of our historic expertise in surface preparation, and we are now able to provide customers with competitive advantages that can only come from a 360-degree perspective on metal forming.

Our appreciation of the chemical intricacies of metal working fluids is a result of our inherent relationship with them. Before the application of any of our thousands of surface finishes, we spend considerable time and effort removing all oils and lubricants to establish the optimal application environment. This “bottom up” perspective has enabled us to gain unique insight into how to create durable and more compatible metal working fluids.

No matter what your metal working fluids needs are, MacDermid will do whatever it takes to engineer the right solution for you.

Relubro Water Based Cutting And Forming Fluids

MacDermid Relubro metal working fluids are a comprehensive range of synthetic, semi-synthetic and soluble oil-based products designed for large central sumps and multi-function machine tools, offering outstanding benefits to machine operators in terms of their excellent Health & Safety profile.

Our focus is to develop and manufacture a range of metal working fluids with a focus on “Irritant Label Free” safe working products. Where possible we have avoided the use of Boron, Nitrite, Chlorine or Formaldehyde, making this range the most operator and safety friendly products currently available.



Soluble Oils

Our Relubro soluble oils provide the highest lubricity available within the range and offer the best choice for difficult substrates or forming operations.

Semi-Synthetics

Offering lower cost, minimal residue and easier machine and component cleaning, these long life Relubro emulsion systems are the perfect choice for most applications.

Synthetics

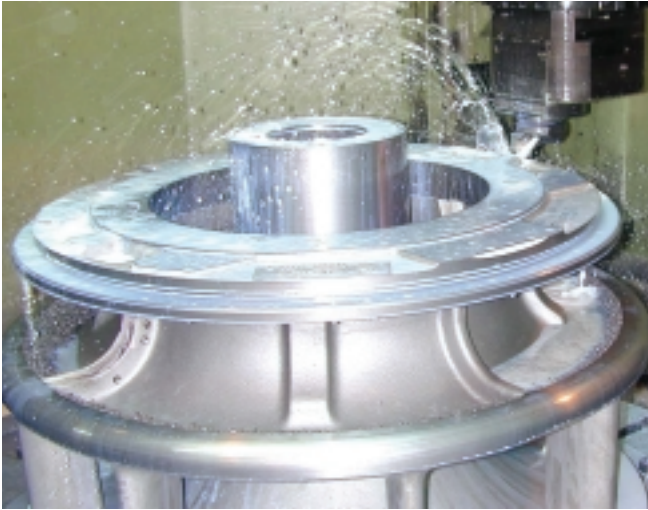
With excellent coolant properties, these “Label Free” products are the ideal compromise between high performance and low cost, and are able to tackle most metal forming operations.

Mar Draw Neat Oil Forming Fluids

Our metal forming neat oils family provides a range of high performance, heavy-duty neat oils with different viscometrics, treated with extreme pressure, antiwear and friction controlling additives, which together provide optimum tool life and component quality in many difficult metal forming operations.

Zerolene Broaching Oils

For severe broaching operations, Zerolene is considered the industry standard. It is a range of special oils containing unique, extreme pressure additive technology with the ability to penetrate and lubricate metal surfaces, providing unrivalled tool life and component surface finish.



Mar Draw – Mar Cut – Mar Synth (Neat Oils)

Our metal forming oils family provides a range of high performance, heavy-duty oils with different viscometrics, treated with extreme pressure, anti-wear and friction controlling additives, which together provide optimum tool life and component quality in many difficult metal forming operations. The range includes heavy duty oils, mineral oils and vegetable oils to suite a variety of applications.

Mar-Grease Range

Our lubricating greases are designed specifically to outperform conventional greases that prematurely break down in difficult conditions, while also meeting the requirement of large volume usage.

Vinoleo

MacDermid Vinoleo lubricants are specifically designed to assist in the making of joints of drinking water transfer pipe lines. The innovative chemistry of Vinoleo is the result of our close working relationships with pipe manufacturers and construction companies. All Vinoleo products are covered under the stringent UK Water Research Council regulations.



Metal Working Fluids

Expertise You Can Count On

For decades, MacDermid has been recognized for its technical expertise in surface coatings and metal finishing. We have engineered thousands of solutions for customers in every industry and have championed environmentally friendly, performance-driven innovations that are repeatedly used as benchmarks by OEM's and competitors alike.

No matter what your needs are, we will do whatever it takes to engineer the solution that is right for you.

When you need performance lubricants that are more than just cost effective, count on the company that say "Yes We Can." MacDermid.

Relubro Metal Working Fluids			
Fluid Type	Operation	Concentration	Product
Synthetic	Carbide Grinding	3-8%	Relubro SM 27AL
	Grinding	3-4%	Relubro S 90
	General Machining	5-10%	Relubro S 521
Semi-Synthetic	Milling, Turning, Grinding	3-8%	Relubro L 700 Bio Relubro L1 Bio Relubro TLB 30
	Reaming, Boring, Tapping, Drilling	3-8%	Relubro TLB 30
Soluble Oil	Tapping, Forming, Drawing, Milling, Turning	6-10%	Relubro LA 600 Relubro LA 216 Relubro LA 200
	Copper Wire Drawing	5-10%	Relubro FLP 5/6 Relubro FLZ



It takes more than innovative, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understanding their needs and the ability to provide the right solutions—every time.

When success is your only goal, trust the company that says "Yes We Can."



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