

MICROFLUID®SPECIALTY LUBRICANTS (I) PVT. LTD. is a technology-driven manufacturer and solution provider specializing in high-performance Metalworking Fluids, Industrial Lubricants, Specialty Process Chemicals, and Customized Fluid-Technology Solutions for modern manufacturing, automotive, precision engineering, OEM, and industrial applications.

Our products are scientifically engineered to deliver superior machining performance, extended tool life, improved surface finish, enhanced corrosion protection, and reliable equipment performance support to customers reduce fluid consumption, and overall manufacturing costs.

With a comprehensive wide range of portfolio covering machining, forming, cleaning, corrosion protection, MQL lubrication, and industrial lubrication, **MICROFLUID®** provides application-specific solutions designed to meet the demanding requirements of modern manufacturing operations.

METALWORKING & MACHINING FLUIDS

- Water-Based Multi-Metal Semi-Synthetic Metalworking Fluids
- Synthetic Metalworking Fluids
- Mineral-Oil-Based Cutting & Machining Fluids

NEAT / STRAIGHT CUTTING OILS

- Neat / Straight Cutting Oils for Grinding, Honing, Lapping & Superfinishing
- Light- & Heavy-Duty Cutting Oils for Gun Drilling, Gear Cutting, Shaving, Hobbing & Broaching
- Tapping & Threading Oils
- Quenching & EDM oils

MQL / MICRO-MIST LUBRICATION

- High-Performance MQL Oils for High-Speed CNC Circular Saw Cutting
- Plant- & Vegetable-Ester-Based MQL / Micro-Mist Lubricants

FORMING, STAMPING & DRAWING LUBRICANTS

- Forming, Stamping & Drawing Oils
- Deep-Drawing Lubricants
- Cold-Forming Lubricants
- Nut & Bolt Forming Lubricants
- Heavy-Duty Forming Oils
- Water-Washable Forming Lubricants

DE-OILING, DEGREASING & PROCESS CHEMICALS

- Industrial Metal Cleaners
- Alkaline Cleaners & Degreasers
- De-Oiling & Component-Washing Fluids
- ECM / Electrochemical Process Fluids
- Ultrasonic Cleaning Chemicals
- Specialty Surface-Treatment Chemicals
- DPF & Industrial Cleaning Solutions
- Stain & Residue Removal Chemicals

CORROSION PROTECTION & RUST PREVENTIVES

- Rust Preventive Oils
- De-Watering Rust Preventives
- Quick Air dry Golden-Yellow Protective Coatings
- Transparent / Quick-Drying Corrosion Protection Fluids
- Water soluble alkaline base short-Term Corrosion Protection Fluids

INDUSTRIAL LUBRICANTS

- Hydraulic Oils, Gear Oils, Circulating Oils & General-Purpose Industrial Lubricants
- Compressor, Vacuum oil & Industrial Lubrication Fluids

QUALITY POLICY

With a strong focus on quality, innovation, and application-specific solutions, through our technical expertise and customer-focused approach, we deliver customized metalworking fluid solutions that meet the demanding requirements of today's high-speed material removal machining, precision engineering, automotive, OEM and manufacturing industries of modern machining operations while maximizing productivity and reducing overall operating costs.

OUR VISION

“To become a trusted Fluid Technology Partner for precision manufacturing by developing innovative, high-performance and sustainable metalworking fluid solutions that improve productivity, process reliability and manufacturing excellence.”

OUR MISSION

“To engineer, manufacture and deliver high-performance metalworking fluids, specialty lubricants and process chemical solutions that solve real manufacturing challenges and create measurable value for our customers.

Through application expertise, continuous innovation, reliable quality and responsive technical support, we aim to help manufacturers improve productivity, protect critical components, optimize process

OUR SERVICES

As part of our technical service commitment, we supports customers with total chemical flow management to minimize fluid consumption and disposal costs. Through sustained effort across marketing, technical support, we built a strong and growing customer base by consistently delivering cost-effective, high-performance, and environmentally responsible metalworking fluid solutions.

Key reasons to choose

MICROFLUID® — *Engineering better fluids- Enabling better machining.-Creating lasting value.*

MICROFLUID Speciality Lubricants develops application-oriented High-performance metalworking fluid technology designed to balance lubrication, cooling, extreme-pressure performance, corrosion protection, cleanliness and fluid stability for modern machining operations.

- Complete Metalworking Fluid Portfolio:
- Reliable Formulations:
- Customized Product Development:-:
- Application & Performance -Focused Solutions:
- Technical Expertise & Process Support:
- Coolant & Chemical Management:

MICROFLUID® Semi-Synthetic Water-Miscible Metalworking Fluids

Product Name	Product Description & Application
MICROFLUID –MF 2770	Low-oil-content semi-synthetic coolant developed for general machining of ferrous metals and selected non-critical non-ferrous alloys. Suitable for turning, milling, drilling, grinding and sawing operations
MICROFLUID SUPER-MF 2780	Medium-oil semi-synthetic coolant engineered for cast iron and ferrous machining applications. Provides superior cooling long sump stability and excellent corrosion protection.
MICROFLUID SUPERULTRA-100	Premium universal semi-synthetic coolant formulated to deliver excellent machining performance, extended tool life, superior thermal stability, and reliable corrosion protection. It is suitable for ferrous and Nonferrous material with stable performance across a wide range of machining operations including turning, milling, drilling, grinding, and sawing.
MICROFLUID SUPERMAX-1000 MICROFLUID SUPERULTRA-200	High-oil heavy-duty semi-synthetic coolant designed for difficult machining operations and high-pressure coolant systems. Suitable for ferrous & yellow metal of machining requiring maximum lubrication and anti-staining performance.
MICROFLUID® NONFERRO SS–600	Premium high-lubricity semi-synthetic coolant specifically developed for aluminium and yellow metal machining. Utilizes non-staining corrosion inhibitors, high-lubricity polar additive to provide superior cooling, exceptional surface finish and outstanding stain-free protection exclusively for non-ferrous metals and their alloys, including Aluminium, Copper, Brass, Bronze, Zinc and Magnesium alloys
MICROFLUID® ECOCUT SS–900	Environmentally responsible semi-synthetic coolant formulated free from Boron, Chlorine, Nitrites, Nitrates, Formaldehyde-releasing biocides or heavy metals. Provides excellent machining performance on multi-metal applications while ensuring operator safety, long sump life and excellent biological stability.
MICROFLUID SUPERLAP-200	MICROFLUID® SUPERLAP-200 is a Precision water-miscible lapping and honing fluid designed for ultra-fine finishing applications. Recommended for bearing balls, mechanical seals, valve components, ceramic parts, precision rollers and other high-accuracy lapping and honing operations .

MICROFLUID® Mineral base Water-Miscible Metalworking Fluids

MICROFLUID SOL- 2760	Premium general-purpose soluble cutting fluid for light to medium-duty machining of ferrous and non-ferrous metals. Recommended for turning, milling, and drilling, grinding, reaming, sawing and machining operations.
MICROFLUID SOL- 2780	High-performance soluble cutting fluid for medium to heavy-duty machining operations. Suitable for high-speed CNC machining centres and compatible with hard water. Recommended for heavy turning, milling, boring, tapping, threading, gear cutting, broaching, reaming, and deep-hole drilling and precision machining operations.

MICROFLUID® Synthetic Water-Miscible Metalworking Fluids

MF ULTRASYNTH-50 G MF ULTRASYNTH- 90 G	MICROSYNTH – is fully synthetic cutting oil forms a clear, transparent true solution in water, delivering maximum cooling, excellent chip evacuation, and clean machining, making it ideal for high-speed CNC machining and grinding where cleanliness and thermal control are critical.
MICROSYNTH – MF-300	MICROSYNTH – F300 is a high-lubricity, fully synthetic cutting fluid, developed for more demanding machining operations where oil-free cleanliness is required without sacrificing tool life and surface finish, providing enhanced lubricity compared to conventional synthetics, while still maintaining clear-solution behaviour., suitable for Multimetal high-speed CNC machining and grinding ,Excellent surface finish, Reduced tool wear, No sticky residues, Excellent corrosion protection Low foam even at high pressure.

MICROFLUID® Metal Cleaners and Degreasing Chemicals

SUPERCLEAN-MF-1800/ MF-2727/MF-5092/ BINWASH-2030	The SUPERCLEAN is washing & cleaning solution suitable for a wide range of ferrous and non-ferrous metals The series is particularly suitable for critical precision-cleaning applications requiring exceptionally low Millipore contamination values, including components prepared for assembly, coating, painting, heat treatment, electroplating and other downstream manufacturing processes.
ECM OIL MICROELECTROLYTE- ECM-20	MICROELECTROLYTE-ECM-20 is high-conductivity electrolyte ECM solution to deliver stable electrical conductivity and controlled anodic metal dissolution. Suitable for multi metal machining and other conductive alloys. Provides efficient metal removal, excellent dimensional accuracy, superior surface finish, reduced electrode wear, controlled electrolyte stability and effective corrosion protection of machine components.
DPF CLEANER DPF-CARBCLEAN-2040	High-Performance DPF & Carbon Deposit Cleaner designed for rapid restoration of Diesel Particulate Filters (DPF). Suitable for commercial vehicles, passenger cars, heavy-duty diesel engines, generators, construction equipment.

MICROFLUID® MIST OIL-Premium Minimum Quantity Lubrication (MQL) Oils

MICROFLUID® MQL MIST Oil Series SUPERMIST-22-28-40 SUPERMIST-3000-4000-5000	MICROFLUID® SUPERMIST Series are premium Minimum Quantity Lubrication (MQL) oils developed for high-speed CNC circular-saw cutting of metal bars, tubes of ferrous & Nonferrous material. The formulation creates a strong, persistent lubricating film under micro-dosing conditions, ensuring exceptional load-carrying capacity, mirror-finish cuts, zero scoring, and extended carbide/HSS saw-tooth life without smoke or oil fog.
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MICROFLUID® Neat/Straight Metal Cutting Fluids

Product Name	Product Description & Application
MICROFLUID® HONEX Series (Honing Oil) MICROHONX-8/12	Low-viscosity, ultra-clean honing & Superfinish oil formulated for precise stock removal and controlled abrasive action. Excellent cooling and flushing. Uniform surface roughness, Reduced stone loading, Tight bore geometry control, Suitable Materials: Alloy steel, cast iron, SS, automotive & hydraulic components.
MICROFLUID® GRIND Series (Grinding Oil) MICROGRINDX-8-12-14-100	Low-viscosity grinding oil designed to provide cool cutting action, clean wheel performance, and minimal thermal damage. Excellent wheel cleaning, Increase Dressing frequency Improved surface finish, Reduced burning & glazing, Low mist generation. Suitable for Cylindrical surface, Seat grinding of Engine Valve CBN, Gear Grinding Tool steel, hardened steel, bearing components.
MICROFLUID SUPERLAP-18 Neat-Type Lapping Oil	Neat-Type low-viscosity Lapping Oil developed for precision multi metal lapping, super finishing, honing and ultra-fine finishing operations with high surface quality, dimensional accuracy and controlled abrasive action are required.
MICROFLUID® GUNDREL Series (Gun- Deep Hole Drilling oil) GUNDREL MF-8-12-18	Medium-low viscosity oil for deep hole gun drilling operation. It has Superior chip evacuation, Excellent bore finish. Prevents drill seizure, Stable at high pump pressures. Suitable for Alloy steels, tool steels, stainless steel, aluminium alloys.
MICROFLUID® GEARCUT Series GEARCUT MF-18-22-28-35	Medium viscosity neat Gear cutting oil with strong boundary lubrication to handle intermittent heavy loads during gear machining. Suitable for Gear cutting, Hobbing, shaping, shaving, and skiving. Suitable for Carbon, alloy steel, case-hardening steels.
MICROFLUID® BROACHX Series MICROBROCHX MF-40-70	High-viscosity, high-film-strength straight cutting oils designed for single-pass heavy metal removal with maximum tool life for broaching, and shaving of hardened steels and precision components.
MICROFLUID® TAPEX (Tapping oil Series) SUPERTAP-40-60-80-110-160-200-250	SUPERTAP Series are high-performance with special boundary additives tapping oils developed for precision and heavy-duty tapping operations on ferrous and non-ferrous metals. Available in various operation wise grades, each optimized for specific tapping severity and application type, to deliver excellent torque reduction, superior thread finish, and extended tap life to tapping & heavy nut forming operation.
MICROFLUID MIRACLE TAP-1000	High performance Solvent base Evaporating pink appearance tapping oil for Nonferrous machining operation. Suitable for Al, Br, Cu & its alloy It is ideally suited for tapping, drilling, reaming, threading, boring, and light machining operations.

MICROFLUID® Plant Base Neat/Straight Metal Cutting & Grinding Fluids

MICROFLUID® BIO CUT Series BIO CUT MF 8-12-18-22-35	Environment-friendly, vegetable ester-based biodegradable cutting oils formulated to deliver very high lubricity, excellent surface finish, and reliable machining performance. Its offers excellent tool protection, reduced operator exposure, and improved environmental compatibility. Specially designed for precision machining of automotive, aerospace & defence, bearing, gear, and general engineering components. Suitable Materials: Ferrous & Non-Ferrous Metals.
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MICROFLUID® Forming, Stamping and Draw Oils

MICROFLUID® FORMEX (Drawing, Forming & Stamping Oil) FORMAX MF-12-30-60-90-110-180	MICROFLUID® FORMAX Series is Medium to high viscosity oil are engineered to deliver exceptionally high weld-load carrying capacity, zero scoring or galling, low lubricant consumption, and significant die life improvement across a wide range of forming, drawing, stamping, nut forming, and wire drawing operations. All grades are water-washable, enabling easy pre-cleaning before painting, plating, coating, or heat treatment, eliminating the need for solvent degreasing.
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MICROFLUID® Rust Preventive and Protective Coating Oils

MICROFLUID RUSTGAURS Series-MF-8/12/32 DW-2901/2902	Oil base & De-Watering (DW) type Rust Preventive Oils formulated with high-performance rust inhibitors and film-forming additives. It deposits a thin protective film on metal surfaces to protect ferrous and non-ferrous components against atmospheric corrosion during storage and transit.
RUSTGUARD® COAT-YD 88 (Quick air Dry–Coating Film)	RUSTGUARD® COAT-YD 88 is a high-performance, solvent-based rust preventive oil for coating application on metal component leaving a uniform transparent Quick Air Dry golden-yellow protective film of approximately 5-6 μ thickness. Application-Machined components (MS, CI, and Alloy Steel) Auto parts & engineering components, Fasteners, bearings, shafts requiring 6 to12 months protective storage Application Method:-Dip process, Brush, Spray system, Roller coating.
MICROFLUID-AQUAGAURD RP-500	Water-Based Rust Preventive is a high-performance, water-diluted corrosion protection system specially formulated to provide effective protection of ferrous & non-ferrous metal components against rust and atmospheric corrosion during manufacturing, intermediate storage, transportation and assembly operations.

MICROFLUID® Hydraulics and Lubricating Oils

MICROHYDRO MF- 12/22/32/46/68/100/150/220/320	Anti-were type general-purpose Hydraulic & lubrication oil applicable for light to heavy duty hydraulic pressure.
MICROSPIN MF- 12/22/32/46/68/100/150/220/320	Spindle oil for Slid way lubrication with different viscosity ranges. Blended with the highly pure paraffinic mineral oil

MICROFLUID® Technical Services and Chemical Flow Management
(Integrated Metalworking Fluid Management Solutions)

As part of our comprehensive technical service portfolio MICROFLUID® provides a wide range of application-oriented technical services for Metalworking Fluids, Industrial Lubricants, Process Chemicals and Coolant Management Systems.

- Total Chemical Flow Management (TCFM)
- Optimization of fluid usage to reduce consumption
- Monitoring of concentration, pH, tramp oil, and microbial activity
- Cost reduction in overall coolant management
- Minimization of waste generation and disposal cost
Filtration of hydraulic & neat cutting oil.
- Water treatment plant for industrial purpose. (R.O./D.M/ Softener /Coolant Recycling & ETP Plant)

MICROFLUID® Accessories & Equipment's

- 1) Hand Refractometer.
- 2) Drum mixer for homogeneous proportion of oil/ water emulsion.
- 3) Emulsion / Oil transport Tank
- 4) Sump cleaning Tank & Coolant Maintenance Equipment
- 5) Tramp Oil Skimmers.
- 6) Water & Coolant Hardness/ pH/Conductivity/Chloride / Bacteria,/Fungus testing Kits

MICROFLUID® Approach

Measure → Monitor → Maintain → Optimize → Recycle

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