

ANCILLARIES

	Part code	Product name	Description
Tramp oil removal	75705	2450M Oil Skimmer Magnet Stand; 49mm belt	Removes approximately 5L/hr of tramp oil (hydraulic oil, spindle oil, etc.) from the surface of the metalworking fluid sumps. Convenient size allows 2450M Oil Skimmer to be mounted in most CNC machines. Supplied ready to use with 600mm belt.
	75724	202552 SB-600 Skimmer Belt 49mm x 600mm	49mm x 600mm skimmer belt for use with the 2450M Oil Skimmer Magnet Stand.
	75706	2430E Oil Skimmer 29mm with separator	Removes approximately 3L/hr of tramp oil (hydraulic oil, spindle oil, etc.) from the surface of the metalworking fluid sumps. Built-in oil separator returns up to 90% of the skimmed liquid emulsion, removing only waste oil. Supplied ready to use with 600mm belt.
	75723	202502 SB-600 Skimmer Belt 29mm x 600mm	29mm x 600mm skimmer belt for use with the 2430E Oil Skimmer.
	75725	202503 SB-800 Skimmer Belt 29mm x 800mm	29mm x 800mm skimmer belt for use with the 2430E Oil Skimmer.
	75726	202504 SB-1000 Skimmer Belt 29mm x 1000mm	29mm x 100mm skimmer belt for use with the 2430E Oil Skimmer.
Mixers	75677	Dosatron mixer D3RE10VVFH 1-10% comp with Larger hose	The Dosatron accurately and consistently doses metalworking fluid into water without electric power and is not affected by fluctuations in water pressure. Dose rates of 1 - 10%. Flow rate of 10 - 3,000 L/hr.
	75707	A-900 Venturi Emulsion Mixer 0-16%, Aluminium 1/2 inch	Automatic emulsion mixer to ensure a correct and uniform blending of metalworking fluids with water. Extremely easy to install and operate, powered by water-pressure. Flow rate of up to 2,000 L/hr. Mixing ratio from 0 to approx. 16%.
Condition monitoring	75704	NBR-18 Refractometer 1-18%	Measures metalworking fluid concentration from 0-18% with accuracy of +/- 0.2% and automatic temperature compensation.
	75281	pH Papers	100 pc. Scale of pH 4.5 – 10 for testing pH of water soluble metalworking fluids.
	75886	Dip Slides	100 x Tryptone Soya Agar with TTC and Rose Bengal Agar dipslides, for testing bacteria and fungus levels in water-soluble metalworking fluids.
	75456	Millers-Xtra FM chart	Magnetic coolant management chart for recording pH and concentration of water soluble metalworking fluids.

TECHNICAL SUPPORT

PRODUCT SELECTION AND TROUBLESHOOTING

Millers Oils has a dedicated team that operates a technical help desk service, for both application advice and troubleshooting.

Technical help desk hours (UK time)	
Monday – Thursday	08:30 – 17:00
Friday	08:30 – 16:00

TRAINING

Millers Oils can provide bespoke training for distributor partners, including best practice for enhanced productivity and health and safety compliance.



“ Millers Oils’ technical knowledge and experience means we have full confidence in their recommendations, and the training and condition monitoring provided has helped us to both extend coolant life and prevent unplanned down-time.”
Maintenance Manager - Fives Landis

“ We have been using Millers Oils for over ten years now and have always found them to be a very reliable and cooperative supplier. They are very helpful with any technical problems we may have and always do their best to assist us in any way they can.”
John Crabtree – Bowers Metrology

Millers Oils is a leading independent blender of oils and lubricants, operating since 1887 in Brighouse, West Yorkshire. We pride ourselves on our award-winning innovation and our independence which allows maximum flexibility to meet our customers’ needs.

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MillersOilsLtd

All products and information are reflective of the latest specifications at the time of going to print. The company reserves the right to change formulations and specifications without prior notice.

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METALWORKING



INTRO

The metalworking industry is complex and challenging: a huge range of modern materials, combined with a multitude of machining operations can make selecting the correct product a minefield.

Once selected, the oil or fluid has to work hard to simultaneously lubricate, cool and flush whilst operating in an open environment - making it susceptible to contamination and degradation.

Add to that the ever-more stringent health and safety regulations, frequent updates to hazard labelling, and today's increased pressures for productivity and cost-savings, and lubrication becomes quite a daunting task...

Fortunately, Millers Oils can help.

Millers Oils has been a leading independent blender of oils and lubricants for over 130 years, and with combined product expertise and industry knowledge, Millers Oils customers benefit from an industry leading advantage in their production processes.



WATER-SOLUBLE METALWORKING FLUIDS

- ✓

Excellent work-piece finish
- ✓

Long sump life
- ✓

Multi-metal compatibility
- ✓

Suitable for high pressure systems
- ✓

Extended tool life
- ✓

Formaldehyde-free

Product name	Fluid type	Material						Chlorine-free	Recommended concentration	Refractometer factor [%/°Brix]	Max. water hardness
		Cast iron	Aluminium	Yellow metals	Alloy steel	Mild steel	Titanium				
Millersol TS	Milky/Soluble		✓	✓	✓	✓		✓	3 – 8%	1.0	300
Millersol TS-EP	Milky/Soluble		✓	✓	✓	✓			3 – 8%	1.0	300
Millersol MP	Semi-synthetic	✓	✓	✓	✓	✓		✓	3 – 10%	1.4	450
Millersol LF	Semi-synthetic		✓	✓	✓	✓	✓	✓	3 – 8%	1.0	250
Millersol HW	Semi-synthetic		✓	✓	✓	✓	✓	✓	3 – 7%	1.2	450
Millersol EP	Semi-synthetic		✓	✓	✓	✓			3 – 10%	1.1	300

SYNTHETIC METALWORKING FLUIDS

Product name	Fluid type	Description
Millgrind G Syn	Synthetic	Chlorine free grinding fluid concentrate of advanced formulation. Designed for use on all surface, centreless and cylindrical grinding applications. Can be used for the grinding of glass and in mirror production.
Millcool Synth	Synthetic	Chlorine free metalworking fluid suitable for arduous grinding and cutting operations. For general machining, thread cutting, deep hole drilling and reaming on ferrous, high tensile and stainless steels, inconel, aluminium alloys, plastics and non ferrous composites.

The Millers Oils range of neat cutting and forming fluids provides excellent surface finish of the work piece and extended tool life across a range of applications and materials.

NEAT OILS

CUTTING OILS

Key products	Cast iron	Aluminium	Yellow metals	Alloy steel	Mild steel
Millicut CAS 14	✓			✓	✓
Millicut CAS 27	✓			✓	✓
Millicut CL 20		✓	✓	✓	✓
Millicut CL 32		✓	✓	✓	✓
Millicut CHF 10	✓			✓	✓
Millicut CHF 22	✓			✓	✓

FORMING OILS

Key products	Aluminium	Yellow metals	Alloy steel	Mild steel
Light duty <5 mm	Millform QD, Millform VO	Millform CL36, Millform QD	Millform CL150	Millform QD, Millform CL36
Medium duty 5 - 10 mm	Millform HCL33	Millform HCL33	Millform HCL33, Millform HCL140	Millform HCL33, Millform HCL140
Heavy duty >10mm	-	-	Millform HCL635	Millform HCL635

For specialist products please contact technical@millersoils.co.uk or +44 (0) 1484 475060

MAINTENANCE LUBRICANTS

Application	Product	Description	Viscosities
Hydraulic oil	Millmax	Low foaming oil for protection against corrosion and wear and maximised power transfer.	22, 32, 46, 68
Spindle oil	Millmax	High speed spindle oil with good oxidation stability and protection against corrosion.	2, 5, 10
Slideway oil	Millway	Anti-wear, anti-corrosion and high lubricity, no-drip formulation to prevent stick-slip and protect slideways.	68, 220
Grease	Deltaplex 2EP	Multipurpose, high-load bearing red lithium complex grease.	NLGI 2

RUST PREVENTIVES AND DEWATERING FLUIDS

Product name	Description
Rust Preventive 1403	Dewatering fluid with indoor protection for up to 3 months.
Rust Preventive 184A	Dewatering fluid with indoor protection 12+ months; outdoor protection 3 to 9 months.
PW11 Wax Film	Indoor protection 5 years; outdoor protection 2 years