



MACHINE SHOP SOLUTIONS





From product concept, design and development through to technical expertise and customer services, ROCOL® supports all your machine shop needs.

Contents

Hand Applied Cutting Lubricants	4/
Cutting Fluids	8/
Fluid Care Products and Equipment	10
Slideaway Lubricants and Cleaner	11
Corrosion Protectives	12
Mould Release	13
Metal Marking Inks	14
Non-Destructive Testing System (NDT)	15
Weld and Fabrication	16
Glass Production	17
Hot Metal Forging Lubricants	18
Knowledge Centre	19

The sectors we serve

- ► CNC Machine Shops
- Welding and Fabrication
- ▶ Plastic Injection Moulding
- ► Cold Metal Forming
- ► Hot Metal Forging
- ▶ Glass Production

Performance you can trust for the metalworking industry



Technically advanced lubricants developed by our chemists and engineers to meet customer needs.

Our metalworking products:

- Extend tooling and component life
- ▶ Reduce machine downtime
- Reduce tooling costs and breakages
- Increase productivity
- ▶ Minimise the risk of workpiece rejection and scrappage

ROCOL provides one of the industry's widest portfolios of high performance products used in the many applications found within today's machine shop.

ROCOL products are developed and manufactured in the United Kingdom and supplied to engineers globally. They provide a comprehensive tool box of solutions keeping machine shops running effectively and efficiently.

We help improve quality throughout all machine shop processes and ensure our customers get it right first time. We welcome the opportunity to meet the needs of our customers with end user visits and site surveys.

Our dedicated labs test to ISO, ASTM, BSI and IP standards so you can be assured that you're using the highest quality products.

www.rocol.com 2/3







RTD®

The RTD® range of hand applied cutting lubricants has a unique formulation, providing superior performance across a range of ferrous and non-ferrous metals.

RTD lubricants:

- Double tool life
- Reduce tool wear
- Promote improved surface finish
- Increase rates of metal removal
- Minimise waste and scrap
- Reduce drill and tap breakages

USED BY

- Tool rooms
- Pipe fitters
- Fabrication workshops
- Maintenance departments

Production machine shops



Suitable for use on many metal types including medium and difficult materials



Part code

53072

53076

53078



Size

400 g

5 l

20 l

Can be applied directly to moving tools Suitable for use on many metal types including medium and difficult materials Used for deep hole drilling and boring



Size

Size

400 ml

300 ml

Part code

Part code

53011

53041

RTD LIQUID

▶ Flows to the cutting edge Oil and solvent free

Available in a plastic squeeze bottle for easy application

RTD COMPOUND







Soft low melting-point paste	Part code	Size
Formulated to cling to the tool -	53020	50 g
stays where it needs to be for longer	53023	500 g
Rolls Royce approved - Spec CSS 137 Type B and C	53026	5 kg
NATO Stock Number: 9150 99 220-2775	53028	18 kg
NATO Stock Number: 9150 99 464-6766		,

For applications where chlorine free products are needed...

RTD CHLORINE-FREE **COMPOUND**



Size Part code 53513 450 g

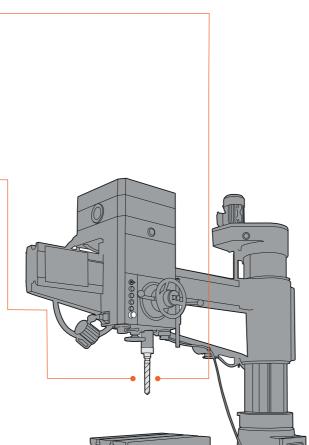


RTD CHLORINE-FREE LIQUID



RTD CHLORINE-FREE SPRAY

400 ml



RTD SPRAY

RTD FOAMCUT

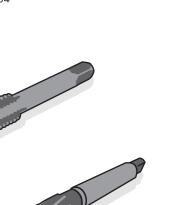
▶ Clean, low odour foaming spray

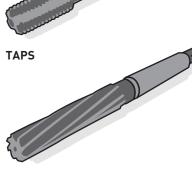
Foaming action adheres to the tool stays where it needs to be for longer

Rapidly penetrates to the cutting edge gets where it needs to be quickly

Use on rotating applications - easy and safe NATO Stock Number: 9150 99 541-7134

Quick and convenient to use





REAMERS

53081

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RTD®

RTD® "doubles tool life" and in some cases can provide up to a 400% increased productivity compared to similar products*.

NATO Stock Number: 9150 99 464-6766

53028

18 kg

Laboratory testing has shown that RTD offers up to 5 times more anti-wear protection than other products, extending tool life and improving surface finish ensuring the quality of the finished workpiece. During the production processes, damage and breakage can mean significant cost increases using RTD helps to minimise these risks and allows the precision engineer to cut with confidence.



The Reichert Wear Test is used to evaluate Compatible with water mix cutting fluids RTD LIQUIDS REICHERT % **Best used on CNC machines** the extreme pressure (EP) properties of 100 lubrication and cutting fluids. 80 60 The test shows how much protection is provided to the 40 cutting tool and component during operation. The lower **RTD TRI-LOGIC** the result (measured in % wear) the more protection 20 provided. This industry standard test demonstrates how RTD outperforms competition and lets you ▶ Reinforces water mix cutting fluid performance Part code Size cut with confidence. Pleasant to use, low odour and light colour 53003 350 ml Optimised for use in the TRI-Logic system 53006 5 l 53008 20 l RTD COMPOUNDS REICHERT % 100 **RTD CLEANCUT** 80 60 Size ▶ Sulphur and chlorine free Part code 40 000 0000 Dilute with water for higher economy 53062 350 g 53066 Available in a plastic squeeze bottle for 5 l easy application __ 00 0 Particularly useful on aluminium and yellow metals **RTD COMPOUND** RTD AEROSOLS REICHERT % 100 Part code Size ▶ Soft low melting-point paste 80 50 g 53020 Formulated to cling to the tool -60 stays where it needs to be for longer 53023 500 g 40 ▶ Rolls Royce approved - Spec CSS 137 53026 5 kg NATO Stock Number: 9150 99 220-2775

6/7 www.rocol.com





V-CUT™

The V-cut[™] range of cutting fluids and maintenance oils provides ROCOL®'s trusted performance and quality at a highly competitive price. ROCOL is a market leader in cutting performance and dilution which means our cutting fluids and your tools last longer.



Part code

51523

Size

20 l



V-CUT MP

▶ Milky type water mix fluid for all general cutting operations

Used on various metals, with excellent results on low to medium carbon steels

▶ Very economical dilutions, up to 35:1

V-CUT EP



Part code



Size

Size Part code 51533 20 l 51530 55 l

Extreme pressure water mix fluid for heavy duty cutting operations ▶ Contains extreme pressure additives

enabling best performance when machining harder materials such as hardened steels or similar tough alloys

Extended tool life and faster machining rates providing cost savings on expensive tooling

V-CUT SS

▶ Semi-synthetic water mix fluid for all general cutting and grinding operations

▶ Allows rationalization to one product for cutting and grinding

Used on most metals especially low to medium carbon steels

Extremely economical dilutions, up to 65:1



MORE CHOICE

Complete range of fluid solutions for the machine shop:

- Cutting fluid
- Slideway oil
- Hydraulic oil

MORE PERFORMANCE ECONOMY

MORE

Specially selected With highly lubricity additives economical help to extend tool dilutions (up to 65:1) life and improve and prolonged sump life, V-cut goes at surface finish least twice as far as similar cutting fluids

MORE PEACE OF MIND

Used with ROCOL fluid mixer, V-cut products keep the workplace clean and help reduce health and safety issues

LESS COST

V-cut products give you the quality and performance expected from ROCOL at a competitive price

		V-CUT EP	V-CUT MP	V-CUT SS
FU	NCTION	Cutting fluid	Cutting fluid	Cutting/ grinding fluid
SUITABILITY		Medium to heavy duty	General purpose	General cutting and grinding
EMULSION COLOUR		Milky white	Milky white	Translucent green
FLUID TYPE AND TYPICAL DILUTION RATIO		Soluble oil up to 35:1	Soluble oil up to 35:1	Semi-synthetic up to 65:1
	CAST IRON	***	****	***
	ALUMINIUM	***	***	****
MATERIAL SUITABILITY	COPPER ALLOYS	***	***	***
SUITABILITY	LOW-MEDIUM CARBON STEELS	****	****	****
	HARDENED ALLOYS	****	***	***
METAL CUTTING	GENERAL OPERATION	****	****	****
METAL CUTTING	HEAVY DUTY OPERATION	****	***	***
GRINDING		***	***	****
PACK SIZES	20L	51533	51543	51523
TAGR SIZES	55L	51530	-	-
		V-cut MP	V-cut EP	V-cut 55

KEY TO PERFORMANCE ★NOT SUITABLE ★★ OK ★★★ GOOD ★★★★ VERY GOOD ★★★★ EXCELLENT

8/9 www.rocol.com



Size

Size

Size

Size

20 l

5 l

Part code

Part code

Part code

Part code

52023

52075

52095

52082

Slideaway Lubricants and Cleaner



ULTRAGUARD®

Our ULTRAGUARD® range of machine tool care products work with our water mix metalworking fluids to ensure your ROCOL® cutting fluid is in optimum condition and your machines and operators are cared for.









ULTRAGUARD BX 2000

Bactericide additive

- Dilution ratio 2000:1 economical in use
- ▶ Formulated to provide long lasting protection against bacterial contamination

ULTRAGUARD FX 1000

Bactericide additive

- Dilution ratio 1000:1 economical in use
- Provides long lasting protection against fungal growth

ULTRAGUARD AF 5000

Non-silicone antifoam

- Dilution ratio 10000:1- economical in use
- Antifoam formulated for the treatment of all types of water mix metalworking fluids
- ▶ Effectively controls excessive foaming

ULTRAGUARD SC

Machine tool system cleaner

- ▶ Dilution ratio 100:1 economical in use
- ▶ Cleans and disinfects in one operation
- ▶ For use prior to recharging machine tools with fresh cutting / grinding fluid



ROCOL Automatic Fluid Mixer

Accurately mixes and dispenses water mix cutting and grinding fluids from the barrel

Part code 52233



ROCOL Refractometer

Provides accurate read out (strength/ mix ratio) of water mix cutting and grinding fluids

Part code 52060





SLIDEWAY LUBRICANTS

ULTRAGLIDE contains high quality oils and additives that provide lubrication and corrosion protection for machine tool slideways.

ULTRAGLIDE X5



Part code

52041

52086

52083

52089



Size

5 l

20 l

200 L

400 ml

Total protection slideway lubricant

- ▶ Highly tenacious film resistant to water wash off/protects slides from corrosion
- Good lubrication and load carrying properties - reduces wear and prevents 'stick slip'
- ▶ Rapid demulsification separates rapidly from cutting fluid and easily removed by oil skimmers/separators

ULTRACLEAN 2000 is a highly effective water based multi-purpose cleaner. Its primary use is the fast and easy removal of oils and greases.

MULTI-PURPOSE WATER BASED CLEANER

ULTRACLEAN 2000



Multi-purpose water based cleaner

- Fast easy removal of oils and greases
- ▶ Use on virtually any non-porous surface
- Leaves no residue when rinsed away
- Economical dilution range up to 100:1
- Used in for ultrasonic baths, cleaning floors and pressure washers

Part code Size 51059 200 l

10 / 11 www.rocol.com



Mould Release



MOISTURE GUARD

Moisture Guard is a medium to long indoor corrosion protection solution for bare metal components and mould tools. It is used to protect high value moulding tools and bright metal components in storage, particularly where condensation is a problem.



MOULD RELEASE

Our mould release agents give fast, efficient and clean release of all types of plastics and rubbers. They provide faithful reproduction of the mould profile however complex the mould or minute the detail. They are commonly used in injection and compression mouldings, as well as extrusion and glass fibre lay up work.

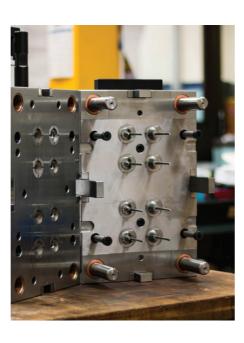


MOISTURE GUARD SPRAYS

Five year indoor corrosion protective

- ▶ Flexible film does not chip or crack
- ▶ De watering film protects against corrosion caused by moisture or damp atmospheres
- Protects against condensation attack
- Does not attract dirt or dust
- Silicone free
- ▶ Does not normally require removal prior to use
- Available in clear and green formulations
- ▶ After 1000 hrs accelerated humidity cabinet testing, MOISTURE GUARD treated steel remains free from corrosion

Part code Size **Clear Spray** 69025 400 ml **Green Spray** 69045 400 ml





PR SPRAY

- ▶ Release agent where silicones
- ▶ Wet film promotes gloss finish
- ▶ Ultra fine even film gives controlled
- ▶ Suitable up to 200°C

Long lasting silicone mould release

- can be tolerated
- application with complete coverage

72015

Part code Size 400ml

MOULD RELEASE SPRAY

Long lasting PTFE mould release

▶ Ultra thin non-silicone dry film PTFE release agent

Can be over-painted or printed

▶ Suitable up to 270°C

Size Part code 72021









12 / 13 www.rocol.com



METAL MARKING

Our LAYOUT INK provides faster, cleaner, more accurate marking out on all metal and plastic surfaces. It gives a smooth even film, enabling clear sharply defined lines to be scribed easily on all surfaces without chipping.



FLAWFINDER

Our FLAWFINDER non-destructive inspection system provides a fast, reliable method for visible detection of cracks or flaws which would not normally be visible to the naked eye. Used to inspect welded joints, castings, forgings on many different materials.



LAYOUT INK SPRAY/FLUID

Metal Marking Ink

- Scribes without flaking or chipping
- Provides contrast and definition
- Fast drying
- Easily removable
- Forms an even thin film
- ▶ Blue for bright surfaces, white for dark surfaces

Part code Size **Blue Spray**

57015 400 ml

Blue Fluid 57034

White Spray

57025 400 ml White Fluid

57044 1 l









USED BY

- Toolroom
- Engineering workshops
- Maintenance departments
- Production machining
- Fabricators





Cleaner













Developer



FLAWFINDER CLEANER SPRAY

Fast drying, no residue cleaner

Size Part code 63125 300 ml

- Cuts through dirt, grease and grime
- Zero residue
- Prepares surface for non-destructive testing

FLAWFINDER DYE PENETRANT SPRAY

Precision crack detection penetrant

▶ Bright red even film

▶ Highly sensitive dye

Water washable

63151 400ml

Part code

Size

FLAWFINDER DEVELOPER SPRAY

Precision crack detection penetrant

▶ Highly absorbent white film for rapid results

▶ Highlights very fine cracks

▶ Sharp indication and geometry of defect to the naked eye

Part code Size

63135 400 ml

FLAWFINDER KIT

▶ All three products in one convenient kit

Useful for remote testing or for mobile engineers

Part code

63181 Aerosols

Size

14 / 15 www.rocol.com







SPATTER RELEASE

Our SPATTER RELEASE prevents the adhesion of molten weld spatter to the work piece, fixtures, jigs, shrouds and nozzles. They provide a cost effective even film with excellent spatter release properties.



GLASSFLO

Our GLASSFLO products are lubricants and coatings that assist production in the glass manufacturing industry.



SPATTER RELEASE SPRAY

Long lasting non-flammable spatter release

One pass coating - goes further / lasts longer

- Film allows multiple welds
- Silicone free
- Easy cleaning





Part code Size

400 ml





GLASSFLO 2017

Dry graphite lubricant

Dry lubricant for wire mesh belts and slide plates found on glass container making machines

▶ Reduces thermal shock between hot glass and cold transfer plate or belt

▶ Reduces crizzling and thermal marking

GLASSFLO 785

High performance dry delivery coating

Dry coating system for scoops, troughs and deflectors used on all types of glass forming delivery equipment

▶ Gives consistent delivery speed

Suitable for patch coating

GLASSFLO MPT

Mould pre-treatment spray

▶ Formulated to remove the need for manual swabbing of moulds during start up

▶ Clean, air cured, dry coating - requires no baking

Prevents adhesion of ware to moulds

Part code Size 78836

4.5 kg





Part code







16 / 17 www.rocol.com







METALFLO

Our METALFLO products are lubricants to assist manufacturing in the forging industry.



ROCOL® is synonymous with quality and that reputation comes from developing technically advanced products for demanding industry applications.

We develop products that display significant advantages over the competition, advantages that add true value to our customers.

METALFLO 1204

Dispersion of graphite in non-melting grease

- Suitable for lubricating dies and pegs in hot brass and copper stamping where maximum resistance to heat is required
- ▶ Also used for the lubrication of bearings and weld spindles conducting electrical current on seam welding machines



400 ml

Part code 78374

Part code

Part code

Part code

78543

78344

Size

18 kg

Size

Size

18 kg

Size

20 l

▶ Graphite base and non-melting at high temperatures



Semi-colloidal dispersion of graphite in water

- Lubricates closed dies in ferrous forging or as a parting agent in gravity die casting
- ▶ Withstands temperatures of up to 650°C
- ▶ Can be extended with water, up to 10:1, making it last longer than other solutions



METALFLO 2064



are using the best product for the job.

To guarantee we achieve this, ROCOL's team of chemists and engineers develops all products in accordance with the ISO 9001 system and is certified to internationally recognised standards.

independent testing which means that you can be sure that you

Our products exist to serve you. By working within our AS 9100:2016 and ISO 9001:2015 accredited quality management systems, we ensure that we continue to deliver products that exceed our customer expectations. From product concept and design through to technical expertise and customer services, all the functions at ROCOL are carefully controlled, meaning you consistently get what you need.





METALFLO 4000

Dispersion of graphite in water

- Used on drop hammers and press forgings
- ▶ Controls die temperature and extends die life
- Can be extended with water, up to 20:1, making it last longer





Each batch of every product we manufacture is tested by the experienced personnel in our quality control laboratory and released for use only when we are confident that it meets the high standards of quality and superior performance associated with all ROCOL products: performance you can trust.

- ▶ Technically advanced products for demanding industry applications
- Products formulated and tested in-house as well as to industry standards
- ▶ All products developed in accordance with ISO 9100:2016 and ISO 9001:2015 accredited Quality Management System
- ▶ Each product tested in our quality control laboratory only released when ready for use in your applications

18 / 19 www.rocol.com



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