

## **HISTORY OF EXCELLENCE**

At ROCOL® we manufacture a range of innovative greases, oils, metalworking fluids, lubricants, aerosol paints, anti-slip floor coatings and panels – all designed to exceed today's challenging operating conditions.

Over the last 130 years, we have expanded considerably and offer solutions to nearly every facet of industry with over 150 distributors stocking and supplying the product range worldwide.

ROCOL® has worked with some of the world's leading companies in many diverse industries and applications, developing products with one common goal: to deliver optimum performance.

We pride ourselves on producing technically advanced products with industry needs at the core. Each and every product has been developed in the spirit  $ROCOL^{\circ}$  is renowned for:

- ▶ Trusted Superior Performance
- Problem Solving
- High Quality
- ▶ Technical Innovation
- ▶ Excellent Technical and After-Sales Support







ROCOL® operates to internationally recognised standards for quality, environment and safety. Also, we are proud of our Investor in People accreditation which demonstrates our commitment to the continual engagement and development of our people.

#### QUALITY



BS EN ISO 9001 Certificate No. FM 12448

#### ENVIRONMENT



SAFETY



**PEOPLE** 





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## MACHINE SHOP LUBRICANTS

## Reaming, Tapping and Drilling Lubricants



RTD° is the world leading hand applied lubricant for Reaming, Tapping & Drilling operations.

The RTD® range contains technically advanced extreme pressure additives which reduce friction at the cutting edge. As a result, it significantly extends the tool life which give cost saving benefits. The additives also give superior surface finish to the work piece reducing waste and scrap.

As part of an ongoing development programme, RTD° technology remains at the forefront in cutting performance. RTD° has been successfully serving industry for nearly 60 years, bringing cost savings and performance to a wide cross section of industries.

#### RTD® lubricants are formulated to:

- Double tool life
- Reduce wear & tap breakages
- Promote excellent surface finish
- Increase rates of metal removal
- Minimise waste and scrap
- Multi metal compatibility

## Typical users

- ▶ Fabrication workshops

- Toolrooms

## Maintenance departments Production machine shops Pipe fitters

## RTD<sup>®</sup> Liquid

#### Metal cutting liquid which doubles tool life

- Ultimate cutting performance
- Flows to the cutting edge
- Suitable for the most severe cutting operations
- Available in a plastic squeeze bottle for easy application

Part code	Size
53072	400g
53076	5L
53078	20L

Part code	Size
53020	50g
53023	500g
53026	5kg
53028	18kg



## RTD<sup>®</sup> Compound

#### Metal cutting compound which doubles tool life

- Suitable for the most severe cutting operations
- Soft low melting-point paste
- Formulated to cling to the tool providing excellent cutting performance
- Application by brush economical in use
- ▶ Rolls Royce approved Spec CSS 137
- NATO stock number: 464-6766

## RTD<sup>®</sup> Spray

#### Metal cutting lubricant which doubles tool life

- Suitable for the most severe cutting operations
- Ideal for use where accessibility is a problem
- Can be applied directly to moving tools
- NATO stock number: 541-7134

Part code	Size
53011	400ml

## RTD® Foamcut Spray

#### Foaming lubricant which doubles tool life

- Suitable for severe cutting operations
- Clean low odour foaming spray
- ▶ Foaming action adheres to the tool
- ▶ Can be applied directly to moving tools

## Part code Size 53041 300ml

#### RTD® Cleancut

#### Metal cutting liquid which doubles tool life

- Sulphur & chlorine free
- Water washable
- Suitable for aerospace & nuclear applications
- Low viscosity, water soluble lubricant
- Non-fuming, low odour characteristics
- Non-staining on yellow metals, aluminium & brass
- Available in a plastic squeeze bottle for easy application

Part code	Size
53062	350g
53066	5L



### TRI-Logic RTD®

#### Metal cutting liquid which doubles tool life

- Water washable
- Suitable for the most severe cutting operations
- ▶ Reinforces water mix cutting fluid performance
- ▶ Pleasant to use, low odour & light colour
- Available in a plastic squeeze bottle for easy application

Size
5L
20L

#### **Selection Chart**

Product		Metalworking		Compatible with Yellow	Water
		Moderate Operation	Servere Operation	Metals and Aluminium	Washable
RTD <sup>®</sup> Liquid	Liquid	▼ ▼	▼ ▼	▼	
RTD <sup>®</sup> Compound	Paste	▼ ▼	▼ ▼	▼	
RTD° Spray	Aerosol	▼ ▼	▼ ▼	▼	
RTD® Foamcut Spray	Aerosol	▼ ▼	▼	▼ ▼	
RTD® Cleancut	Liquid	▼ ▼	▼	▼ ▼	▼ ▼
TRI-Logic RTD°	Liquid	▼ ▼	▼ ▼	▼	▼ ▼
Optimum Pe	rformance	Good Perfo	rmance		

If you require help in selecting a product, contact ROCOL® direct: +44 (0) 113 232 2750

## RTD® Chlorine Free

RTD® Chlorine Free range is used where chlorine cannot be tolerated.

The RTD° Chlorine Free range performance characteristics are the same as standard RTD°.

## RTD® Chlorine Free Liquid

Metal cutting liquid which doubles tool life

## **RTD®** Chlorine Free Compound

Metal cutting compound which doubles tool life

## RTD® Chlorine Free Spray

Metal cutting lubricant which doubles tool life

Part code	Size
53521	350ml
Part code	Size
53513	450g
Part code	Size
53081	400ml



## **Cutting Fluids**

The ULTRACUT® range of water mix cutting fluids has been developed to provide optimum cutting performance. The range has remained at the forefront of technology in terms of performance as well as safety and environmental characteristics. The ULTRACUT® range includes products for all metal removal operations.

ULTRACUT® EVO has been carefully formulated to be operator friendly and to minimise environmental impact.

## The ULTRACUT® range is formulated to provide:

- ▶ High dilution ratios reduced consumption
- Exceptional cutting performance extended tool life
- ▶ Long predicatble sump life reduced disposal costs
- Metal deactivators and passivators multi-metal compatibilty
- ▶ Low foaming ideal for modern high pressure systems
- No hazard labelling operator friendly



The ULTRACUT® range has been formulated to run at high mixing dilutions. This makes them very economic to use, which in turn makes them extremely cost effective.

Typical ULTRACUT® 370 Plus usage illustration:

Number of litres of concentrate to mix 12,000 Litres of mixed emulsions:













#### Extend tool life

Part of the ULTRACUT® range contains Extreme Pressure (EP) additives, which are used for machining hard metals. These additives reduce wear and friction and are able to withstand exceptionally high pressure, which results in: Reduced tool wear / Improved surface finish / Enables tough work hardening alloys to be easily cut / Allows heavier cuts to be taken and maintained machining tolerances

The international recognised Reichert Friction & Wear test demonstrates the benefits of ULTRACUT® EP cutting fluids.

To see the Reichert Friction & Wear test in action, use the following website link: www.rocol.com/reichert

#### Technical Information:

Test Material: Ring material: Pin Material: Duration: Surface Speed: Load: Hardened Steel 100 Cr 6 Hardness HRc 58 to 65 100 Cr 6 Hardness HRc 60 +/-2 100 metres, measured by the counter 1.67m/sec 1.5kg weight applied via a 22:1 lever system

1.5kg weight applied via a 22:1 lever syste 50mls of emulsion



C – Tested with ULTRACUT® 260 (Wear 22.3%)

cutting fluid (Wear 100%)



## **ULTRACUT®** EVO Series

## Water Mix Fluids

ULTRACUT $^{\circ}$  EVO is the next generation of cutting fluid from ROCOL $^{\circ}$ , with all the performance and cost effectiveness of ULTRACUT $^{\circ}$ 

ULTRACUT® EVO has been carefully formulated to be operator friendly and minimise environmental impact.

Formulated to provide extremely economical dilution ratios with exceptional cutting performance the ULTRACUT® EVO range provides a very cost effective solution to your metal cutting needs.

# NO BIOCIDES NO HAZARD LABEL NO SKIN SENSITISERS

## **NO COMPROMISE**

#### **ULTRACUT® EVO 250**

#### Long life soluble oil cutting fluid

- Formulated for light/medium cutting operations
- ▶ High quality general purpose water mix cutting fluid
- ▶ Suitable for ferrous and non-ferrous metals
- ▶ Very economical dilutions, up to 40:1

Part code	Size
51366	5L
51363	20L
51362	60L
51369	200L

#### **ULTRACUT® EVO 255**

#### Long life EP soluble oil cutting fluid

- ▶ Formulated for medium/severe cutting operations
- Contains EP additives formulated to give superior performance and extend tool life
- Very economical dilutions, up to 40:1

Part code	Size
51336	5L
51333	20L
51339	200L

## **ULTRACUT® EVO 260**

#### Long life high performance EP soulble oil cutting fluid

- Formulated to provide superior performance in severe cutting operations
- Suitable for a wide range of ferrous and non-ferrous metals including stainless steel, nickel alloys, titanium and nimonics
- ▶ Effective in a wide range of water conditions
- Contains EP additives formulated to give superior performance and extend tool life
- Very economical dilutions, up to 40:1

Part code	Size
51263	20L
51264	60L
51269	200L

### **ULTRACUT® EVO 280**

## Long life high performance soluble oil cuttin fluid for aluminium

- Compatible with all grades of aluminium alloys
- Unique lubricity additives prevent 'built up' edge
- Superior pH control prevents staining
- Economical dilutoins, up to 25:1

Part code	Size
51682	20L
51689	200L



## **ULTRACUT®** Hard Water Series

## Water Mix Fluids

## **ULTRACUT® 250 HW**

Long life soluble oil cutting fluid for hard water areas

- ▶ All the characteristics of ULTRACUT EVO 250 for use in areas with water hardness more than 270ppm
- ▶ Economical dilutions, up to 35:1

Part code	Size
51483	20L
51489	200L

## **ULTRACUT® 255 HW**

Long life EP soluble oil cutting fluid for hard water areas

- ▶ All the characteristics of ULTRACUT EVO 255 for use in areas with water hardness more than 270ppm
- ▶ Economical dilutions, up to 35:1

Part code	Size
51473	20L
51479	200L







## Operator friendly

Careful selection of our raw materials ensures there are no risk phrases assigned to our Hard Water and Semi Synthetic cutting fluids when diluted - therefore minimising the risk of Health & Safety concerns.







## **ULTRACUT®** Semi Synthetic Series

## Water Mix Fluids

ULTRACUT® Semi Synthetic Series is a range of highly refined mineral oil fluids that form a semi-synthetic micro emulsion. They can be used to rationalise to one fluid for cutting and grinding applications.

The range is safe and pleasant to use. They give a long predictable sump life, which make them very cost effective.







#### **ULTRACUT® 370 Plus**

#### Long life high dilution semi-synthetic cutting & grinding fluid

- Very high dilution Low in sump cost
- ▶ Suitable for use as a light/medium cutting & grinding fluid
- Forms a translucent green micro-emulsion when mixed with water which provides a clear view of the workpiece
- Extremely economic dilutions: up to 60:1 for cutting and 70:1 for grinding

Part code	Size
51376	5L
51373	20L
51372	60L
51379	200L



#### **ULTRACUT® 320**

## Long life high performance EP semi-synthetic cutting & grinding fluid

- Formulated to provide superior performance in medium to severe cutting operations
- ▶ Suitable for a wide range of ferrous & non-ferrous metals
- Forms a translucent blue micro-emulsion when mixed with water which provides a clear view of the workpiece
- Contains EP additives formulated to give superior performance and extend tool life
- ▶ Very economic dilutions: up to 40:1 for cutting, and 60:1 for grinding

Part code	Size
51323	20L
51329	200L

#### **ULTRACUT® 390H**

#### Long life semi-synthetic cutting fluid

- ► Formulated for light/medium machining of ferrous materials, in particular cast iron
- Forms a translucent green micro-emulsion when mixed with water which provides a clear view of the workpiece
- ▶ Very economic dilution, up to 40:1

Part code	Size
51296	5L
51293	20L
51294	60L
51299	200L



## **ULTRACUT® 620**

## Water Mix Fluid

The ULTRACUT® 620 is a chlorine free semi-synthetic micro emulsion that has Extreme Pressure (EP) performance - reduces tool wear and improves surface finish.





## **ULTRACUT® 620**

#### Long life chlorine free EP semi-synthetic cutting & grinding fluid

- ▶ Ideal for medium to severe cutting & grinding operations
- Unique EP additives formulated to give superior performance and extend tool life
- Very economic dilutions: up to 40:1 for cutting, and 55:1 for grinding

Part code Size 51389 200L

#### **Selection Chart**

Product	Emulsion	Fluid Type & Typical					
Colour Dilution Range With Water	Cast Iron	Aluminium	Copper Alloys	Low-Medium Carbon Steels	Hardened Alloys		
ULTRACUT° EVO 250	Milky White	Soluble Oil Up to 40:1 Cutting	▼ ▼	▼ ▼	▼ ▼	~~~	-
ULTRACUT° 250 HW	Milky White	Soluble Oil Up to 35:1 Cutting	▼ ▼	▼ ▼	▼ ▼	•••	•
ULTRACUT° EVO 255	Milky White	Soluble Oil Up to 40:1 Cutting	▼ ▼	▼ ▼	▼ ▼	<b>~~~</b>	••
ULTRACUT° 255 HW	Milky White	Soluble Oil Up to 35:1 Cutting	▼ ▼	▼ ▼	▼ ▼	<b>▼▼</b>	▼ ▼
ULTRACUT° EVO 260	Milky White	Soluble Oil Up to 40:1 Cutting	▼ ▼	▼ ▼	▼ ▼	•••	<b>~ ~ ~</b>
ULTRACUT° EVO 280	Milky White	Soluble Oil Up to 25:1 Cutting	•	•••	•••	•••	•
ULTRACUT° 370 PLUS	Transluscent Green	Semi-Synthetic Up to 60:1 Cutting Up to 70:1 Grinding	••	•	•	•••	•
ULTRACUT° 320	Transluscent Blue	Semi-Synthetic Up to 40:1 Cutting Up to 60:1 Grinding	••	••	•	•••	••
ULTRACUT° 390H	Transluscent Green	Soluble Oil Up to 40:1 Cutting	•••	•	-	•••	•
ULTRACUT° 620	Transluscent Blue	Soluble Oil Up to 40:1 Cutting	▼ ▼	▼ ▼	••	•••	▼ ▼
ULTRACUT° 550	Amber Oil	Neat Oil	<b>▼▼</b>	▼ ▼	•	•••	•••
JLTRACUT° 560	Dark Amber Oil	Neat Oil	•••	•	x	•••	~ ~ ~

## **ULTRACUT® 500 Series**

## **Neat Cutting Oils**

The ULTRACUT 500° series are formulated from highly refined mineral oil and are formulated for the severest cutting operations.





## **ULTRACUT® 550**

#### High performance EP neat oil cutting fluid

- Formulated for medium to severe cutting operations
- ▶ Contains EP additives formulated to give superior performance and extend tool life
- ▶ Excellent residual corrosion protection
- Also suitable for: thread grinding, broaching, gear cutting and deep hole drilling

Part code 51619



## **ULTRACUT® 560**

#### High performance chlorine free EP neat oil cutting fluid

- ▶ All the characteristics of ULTRACUT® 550 but chlorine free
- Not suitable for use on copper or copper based alloys

Part code 51629





## **Grinding Fluids**

ULTRAGRIND™ is a range of synthetic grinding fluids that contain technically advanced corrosion inhibitors, wetting agents and lubricity additives.

- Dil free keeps wheel clean / reduces dressing frequency
- ► Formulated to ensure rapid settlement of grinding fines; promoting an excellent surface finish
- Excellent residual corrosion protection
- Low odour, low foaming







#### **ULTRAGRIND™ 430**

#### Long life multi-purpose synthetic grinding fluid

- Formulated for light to medium surface, centreless & cylindrical grinding operations
- ▶ Very economic dilutions, up to 60:1

Part code	Size
51503	20L
51509	200L

#### **ULTRAGRIND™** Premium

#### Long life high performance synthetic grinding fluid

- Formulated for medium to heavy surface, centreless & cylindrical grinding operations
- Extremely economic dilutions, up to 70:1

Part code	Size
51182	20L
51189	200L



#### **ULTRAGRIND™** Carbide

#### Long life high performance synthetic carbide grinding fluid

- Formulated for grinding tugsten carbide
- ▶ Contains inhibitors to minimise cobalt leaching
- Economic dilutions, up to 30:1

**Selection Chart** 

Part code	Size
51719	200L

## Product Emulsion Colour Dilution Range With Water Cight Colour With Water Cight Colour Colour

**Tungsten Carbine Heavy Duty ULTRAGRIND™** Transluscent Synthetic X 430 Green Up to 60:1 **ULTRAGRIND™** Transluscent Synthetic **PREMUIM** Green Up to 70:1 **ULTRAGRIND™** Transluscent Synthetic Green **CARBIDE** Up to 30:1 X Not Suitable ▼ ▼ ▼ Optimum Performance ▼ Good Performance

If you require help in selecting a product, contact ROCOL® direct: +44 (0) 113 232 2750

## Supply & Management of ROCOL® Cutting Fluids

Ultracare® can offer up to 40% saving on your total metalworking fluid spend through:

- Reduced fluid usage
- Improved machine performance & efficiency
- Extended tool life
- Less downtime
- Reduced waste disposal costs

## **Ultracare**

To complement the ULTRACUT® Range, ROCOL® offers the Ultracare® programme, which is a commitment to our customers that their cutting fluid is running at an optimum level of performance at all times.

This is achieved through experienced ROCOL® Service Engineers operating across the UK, who provide a world-class service package. All ROCOL® Service Engineers have been extensively trained in the care and maintenance of metalworking fluids. They are able to provide a unique customised care and maintenance programme that ensures all metalworking fluid requirements are achieved, as well as offering training sessions which are tailored to suit the needs of any company.

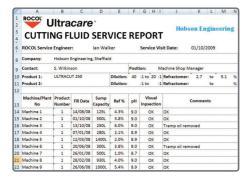
#### The Ultracare® programme includes:

- Free machine shop survey that accurately identifies cost saving potential
- ▶ Regular ROCOL® Service Engineer visits to monitor fluid condition
- Operator training on best practice of metalworking fluid management
- ▶ Electronic fluid management record system which is fully HSE compliant
- Expert advice & solutions on all aspects of cutting fluid usage and disposal
- Extremely competitive disposal prices









Electronic fluid management record

Ultracare® is HSE compliant, which contributes to the safety of employees. The programme also ensures a long predictable sump life, therefore less waste is generated which is kind to the environment - the Ultracare® programme can help towards the achievement of OHSAS 18001 and BS EN ISO 14001.

## Value Engineered Cutting Fluids



The V-cut™ range consists of three 'Value Engineered' water mix cutting fluids that offer our performance and quality at a competitive price.

The range offers an optimum balance between lubrication and cooling whilst giving excellent metal removal rates, long predictable sump life and excellent cutting / grinding performance.

 $V\text{-cut}^{\text{m}}$  fluids have been carefully formulated using the latest in modern cutting fluid additive technology and highly refined mineral oils, making them safe and pleasant to use.

#### **TYPICAL USERS**

- Maintenance departments
- Education centres
- Small machine shops



#### V-cut<sup>™</sup> MT

Milky type water mix fluid for all general cutting operations

- > Stable low foaming milky white emulsion
- Economic dilutions, up to 20:1

Part code	Size
51516	5L
51513	20L
51514	60L

## V-cut<sup>™</sup> SS

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

- Rationalise to one fluid for cutting & grinding
- ▶ Forms translucent green micro-emulsion in water
- ▶ Very economic dilutions, up to 45:1 for cutting. 55:1 for grinding

Part code	Size
51526	5L
51523	20L
51524	60L

## V-cut<sup>™</sup> EP

Extreme pressure water mix fluid for heavy duty cutting operations

- Special extreme pressure (EP) additives extend tool life and improve surface finish
- Stable low foaming milky white emulsion
- Very economic dilutions, up to 40:1

Part code	Size
51533	20L
5153/	601



#### **Selection Chart**

General Operation	Heavy Duty Operation	Operation
<b>~ ~ ~</b>	▼ ▼	<b>~</b>
▼ ▼ ▼	<b>▼</b>	▼ ▼ ▼
▼ ▼ ▼	▼ ▼ ▼	▼

If you require help in selecting a product, contact ROCOL° direct: +44 (0) 113 232 2750

## Fluid Care Products and Equipment

The ULTRAGUARD® range of machine tool care products are formulated to compliment our water mix metalworking fluids. They ensure best practice care and maintenance of machine tools, as well as optimum performance from your ROCOL® metalworking fluid.



#### **ULTRAGUARD® SC**

#### Machine tool system cleaner

- Dilution ratio 100:1 economical in use
- Exceptional performance cleans & disinfects in one operation
- Formulated for use prior to recharging machine tools with fresh cutting/grinding fluid
- Can be used while machine is in operation

Part code	Size
52024	1L
52026	5L
52023	20L





#### **ULTRAGUARD® BX**

#### **Bactericide additive**

- Dilution ratio 1000:1 economical in use
- Formulated to provide long lasting protection against bacterial contamination
- Can be safely used with all water mix metalworking fluids

Part code	Size
52084	1L

## **ULTRAGUARD® FX**

#### **Fungicide additive**

- Dilution ratio 1000:1 economical in use
- Formulated to provide long lasting protection against fungal growth
- ▶ Can be safely used with all water mix metalworking fluids

Part code	Size
52094	1L



## ULTRAGUARD® PF

#### Machine tool purging fluid

- Dilution ratio 50:1 economical in use
- Used to clean out the system prior to refilling with fresh fluid
- Cleans and disinfects the most severely contaminated machine tool systems
- Loosens sludge and slime deposits
- Not to be used when machining aluminium alloys

Part code	Size
52054	1L

ROCOL® Automatic Fluid Mixer

#### **ULTRAGUARD® AF**

#### 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

Part code	Size
52074	1L

Part code	Size
52233	1

Part code

52060

		Contract of the Contract of th
ROCOL°	Refracto	meter

## ROCOL® Automatic Fluid Mixer

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

## ROCOL® Refractometer

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

## **Near Dry Machining**

Accu-Lube® offers a complete range of natural-based lubricants along with specially-developed, patented micro-lubrication systems. Where appropriate they are a viable alternative to water mix cutting fluids.

The Accu-Lube® System can be used on all major workshop processes, such as: Circular & Band Sawing, Turning, Milling, Drilling, Tapping, Reaming and Forming.



#### Accu-Lube Lubricants

Accu-Lube® lubricants comprise of a complete line of natural based lubricants, which are biodegradable, non toxic and no-allergenic: suitable for most machining operations.

#### Accu-Lube Applicator

Accu-Lube® applicators regulate the lubricant supplied to the cutting edge in exact quantities. The lubricant is carried by air, with pinpoint accuracy onto the cutting edge with no risk of hazardous atomising or mist.

Accu-Lube® represents the very latest technology ensuring:

- Improved productivity
- Reduced operating costs
- Safer working conditions
- No waste disposal
- Eliminates cutting fluid
- Environmentally considerate



## Cleaner machine operations

#### Accu-Lube® LB2000

#### Heavy duty machining lubricant

- High performance lubricant based on highly refined natural base oils
- Excellent on ferrous and non ferrous metals
- Must be cleaned off prior to heat treating

Part code	Size
74006	5L
74009	200L

#### Accu-Lube® LB4000

#### Light to medium duty machining lubricant

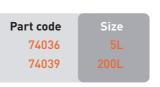
- High performance lubricant based on naturally derived fatty acids
- Excellent on ferrous and non ferrous metals
- No cleaning required prior to heat treating

Part code	Size
74026	5L
74029	200L

#### Accu-Lube<sup>®</sup> LB5000

#### Medium duty machining lubricant

- High performance light viscosity lubricant based on fatty alcohol
- Suitable for non ferrous metals, especially aluminium
- No cleaning required prior to heat treating





### Accu-Lube® LB10000

#### Medium to heavy duty machining lubricant

- Machining lubricant based on refined natural base oils
- Suitable for ferrous and non ferrous metals
- Must be cleaned off prior to heat treating

Part code	Size
74056	5L
74059	200L

Accu-Lube® applicators regulate the lubricant supplied to the cutting edge in exact quantities depending on the operation.

Part code	Size
74999	-



## **Slideway Lubricants**

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

It's compatible with water mix cutting and grinding fluids which prevents the formation of solids. This reduces the risk of oilway blockages which cause expensive downtime and repairs.

The high film strength prevents metal to metal contact, reduces wear and ensures smooth and precise movement.



#### **ULTRAGLIDE X5**

#### Total protection slideway lubricant

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

Part code	Size
52086	5L
52083	20L
52089	200L



## **ULTRAGLIDE Spray**

#### Total protection slideway lubricant

- All the features of ULTRAGLIDE X5 with the convenience of an aerosol
- ▶ Ideal for machine tools without automatic lubrication systems

Part code 52041





## Multi-Purpose Water Based Cleaner

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



#### **ULTRACLEAN 2000**

#### Multi-purpose water based cleaner

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



 Part code
 Size

 51056
 5L

 51059
 200L



## Corrosion Protectives MOISTURE GUARD

MOISTURE GUARD gives exceptional corrosion protection. It is typically used to protect high value moulding tools and bright metal components in storage.



## MOISTURE GUARD Spray/Fluid

#### Five year indoor corrosion protective

- ▶ Flexible film does not chip or crack
- Dewatering 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







## **MOISTURE GUARD Clear Spray**

**MOISTURE GUARD Green Spray** 

**MOISTURE GUARD Green Fluid** 

Part code Size 69025 400ml

Part code Size 400ml

Part code Size 5L



## **METAL GUARD**

METAL GUARD is a corrosion protective for the temporary indoor protection of components such as pressings and any machined metal components - whether in storage, transit or between operations.



#### **METAL GUARD Fluid**

#### One year indoor corrosion protective

- Dewatering corrosion protective
- Suppresses corrosion attack from finger prints
- Ideal for dipping, brushing or spraying
- Easily removable oily film
- Does not contain silicone
- After 500 hrs accelerated humidity cabinet testing,
   METAL GUARD treated steel remains free from corrosion



Part code 69069

200L



## **FORMING LUBRICANTS**

## **Cold Metal Forming Lubricants**

The ULTRAFORM™ range of forming lubricants are formulated for cold forming operations such as deep drawing, forming, piercing and blanking. They are formulated to:

- Increase production rates and reduce lubricant usage
- Provide optimum performance, preventing splitting, pick up
   & scoring, resulting in minimal scrap rates
- ▶ Be used on a wide range of metals
- Give maximum tool/die life
- Provide excellent process compatibility







### **Neat Oils**

#### **ULTRAFORM™ 1060**

Vanishing film forming lubricant

- ▶ Light duty forming lubricant
- Dries rapidly usually requiring no cleaning prior to finishing process

Part code	Size
86213	20L
86219	200L



## **ULTRAFORM™ 1050**

Low residue forming lubricant

- Light to medium duty operations
- Normally requires no cleaning

Part code	Size
86103	20L
86109	200L



High performance forming lubricant

- Suited to the most demanding forming operation
- Leaves an oily film for corrosion protection or carry over lubrication for a secondary process
- ▶ Easily applied and cleaned

Part code	Size		
86083	20L		
86089	200L		





### Water Extendable Oils

The ULTRAFORM™ 2000 Series are very versatile & economical forming products that can be used neat or diluted with oil/water.







#### **ULTRAFORM™ 2030**

High performance light/medium duty EP forming lubricant

 Formulated for light/medium duty forming operations on ferrous and non-ferrous metals

Part code	Size
86013	20L
86019	200L



## **ULTRAFORM™ 2020**

High performance heavy duty EP forming lubricant

 Formulated for heavy duty forming operations on ferrous and non-ferrous metals

Size		
20L		
200L		

### **ULTRAFORM™ 2010**

Ultimate performance severe/extra severe duty EP forming lubricant

- Particularly suitable for use on ferrous and non ferrous metals including stainless steels and nickel alloys
- ▶ Use neat for ultimate metal forming performance

Part code	Size
86043	20L
86049	200L



#### **ULTRAFORM™ 2015**

High performance medium/heavy duty EP chlorine free forming lubricant

 Formulated for medium/heavy duty forming operations on ferrous and non-ferrous metals

Part code	Size	
86099	200L	

## **ULTRAFORM™** Advantage

Ultimate performance medium/heavy duty EP chlorine free forming lubricant

- Formulated for medium/heavy duty forming operations on ferrous and non-ferrous metals
- Provides outstanding economy and minimal scrap
- Difficult operations use neat
- Medium/heavy operations dilute with water

TPart code	Size
86273	20L
86279	200L

## **Hot Metal Forging Lubricants**

METALFLO products are lubricants specifically formulated to assist manufacture in the forging industry.





#### **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 Part code Size 78374 18kg

#### **METALFLO 20**

#### Dispersion of graphite in alcohol

 Formulated for use as a pre-treatment to provide a dry film to all forms of hot metalworking tooling Part code Size 5L

#### **METALFLO 2064**

#### Semi-colloidal dispersion of graphite in water

► Formulated to lubricate closed dies in ferrous forging or as a parting agent in gravity die casting

Part code Size 78344 18kg

#### **METALFLO 4000**

#### Dispersion of graphite in water

Ideal for drop hammer and press forging

Part code Size 78543 20L



## **MOULD RELEASE AGENTS**

Our unique range of mould release agents offers high performance, economy and versatility in the release of all types of plastics and rubbers. They are commonly used in injection and compression mouldings, as well as extrusion and glass fibre lay up work.

## MOULD RELEASE

## The ROCOL® mould release range is formulated to:

- Ensure trouble free start up
- Be highly economical one pass coating
- Penetrate and spread to all parts of intricate moulds to give full clean release
- ▶ Enable high speed production



## **PR Spray**

#### Long lasting silicone mould release

- Ultimate release agent where silicones can be tolerated
- ▶ Wet film promotes gloss finish
- ▶ Ultra fine even film gives controlled application with complete coverage
- ▶ Suitable up to 200°C

Part code Size 72015 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

Part code Size 72021 400ml



## **RS-7 Spray**

#### Long lasting non silicone mould release

- Non silicone wet film promotes gloss finish
- ▶ Can be over-painted or printed when dry
- ▶ Suitable up to 150°C

Part code Size 72035 400ml



#### **Selection Chart**

Product	Base	Upper Temperature Limit	Wet/Dry Film	Component Finish	Over Printed or Printed
PR Spray	Silicone	200°C	Wet	Gloss	X
Mould Release Spray	PTFE	270°C	Dry	Matt	▼
RS-7 Spray	Hydrocarbon Blend	150°C	Wet	Gloss	•
■ Suitable ¥ No.	n Suitable				

If you require help in selecting a product, contact ROCOL° direct: +44 (0) 113 232 2750

## **Mould Tool Corrosion Protective**

MOISTURE GUARD gives exceptional corrosion protection. It is typically used to protect high value moulding tools and bright metal components in storage.







## MOISTURE GUARD Spray/Fluid

#### 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

## MOISTURE GUARD Clear Spray

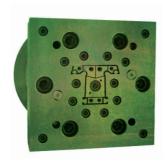
**MOISTURE GUARD Green Spray** 

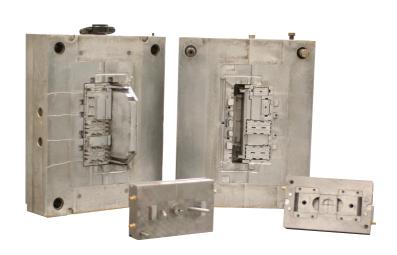
**MOISTURE GUARD Green Fluid** 

Part code	Size
69025	400ml

Part code	Size
69045	400ml

Part code	Size
69006	5L





## **WELDING & FABRICATION**

## **Non Destructive Testing** System (NDT)

The FLAWFINDER System is a non destructive crack detection system. The benefits of the Flawfinder System include:

- Industrially recognised NDT system
- Portable and simple to use in natural light
- Cost effective

#### Typical applications

- Weld inspection
- Batch testing
- Checking tools







## **FLAWFINDER CLEANER Spray**

#### Fast drying, no residue cleaner

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

Part code 63125



## **FLAWFINDER DYE PENETRANT Spray**

#### Precision crack detection penetrant

- Bright red even film
- Highly sensitive dye
- Water washable

Part code 63151



## FLAWFINDER DEVELOPER Spray

#### Precision crack detection developer

- ▶ Highly absorbent white film for rapid results
- Highlights very fine cracks
- ▶ Sharp indication and geometry of defect to the naked eye Suitable for pressure testing & leak detection

Part code 63135



Part code 63181

## **Metal Marking Inks**

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

## METAL MARKING

#### Typical users

- ▶ Toolrooms
- Engineering workshops
- Maintenance departments
- Production machining
- Fabricators









## LAYOUT INK Spray/Fluid

#### **Ultimate Metal Marking Ink**

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

Part code Size 57015 400ml

Part code Size 57034 1L

Part code Size 400ml

Part code Size 57044 1L





## LAYOUT INK Spray (Blue)

LAYOUT INK Fluid (Blue)

**LAYOUT INK Spray (White)** 

**LAYOUT INK Fluid (White)** 

## **Weld Spatter Release**

SPATTER RELEASE is formulated to prevent the adhesion of molten weld spatter to the work piece, fixtures, jigs, shrouds and nozzles. They have been designed to provide a cost effective even film with excellent spatter release properties.







## **SPATTER RELEASE Spray**

Economical non flammable spatter release

- Exceptional spatter release one pass coating
- Film allows multiple welds
- Silicone free
- Easy cleaning

Part code 66080



#### SPATTER RELEASE Fluid Oil Free

Paintable water based spatter release

- Available in an easy to use trigger pack
- Non flammable
- Solvent, oil & silicone free
- No cleaning required after use paintable & plateable

Part code 66070 66096

#### **Selection Chart Product** Water Based Non Allows No Cleaning Flammable & Oil Free Muliple Welds Paintable & Plateable Free Spatter Release Spray Spatter Release Fluid Oil Free X Not Suitable Excellent Suitable

If you require help in selecting a product, contact ROCOL° direct: +44 (0) 113 232 2750

## **SPECIALIST APPLICATIONS**

## **Glass Production Lubricants**

GLASSFLO products are lubricants & coatings specifically formulated to assist production in the glass manufacturing industry.







#### **GLASSFLO 2017**

#### **Dry graphite lubricant**

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

#### **GLASSFLO 785**

#### High performance dry delivery coating

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

#### **GLASSFLO MPT**

#### Mould pre-treatment spray

 Formulated to remove the need for manual swabbing of moulds during start up Part code 78836

Size 4.5ka

Part code 78844 Size 500a

Part code 78871

Size 400ml



## **Graphite Powders**

GRAPHITE powders are used in a range of different industries, such as:

- Paper making industries as an opacity modifier
- High temperature seals
- Batteries
- Sintered products
- Conductive electrical coatings
- Paints and explosives
- ▶ High temperature lubrication

## X2101 Graphite

Typical particle size - Less than 40 microns

## X3149 Graphite

Typical particle size - Less than 75 microns

## X2103 Graphite

Typical particle size - Less than 75 microns

## X7119 Graphite

Typical particle size - Less than 18 microns

Part code Size 40kg

Part code Size 25kg

Part code Size 25kg

Part code Size 50kg

Part code Size 50kg

82464





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