



Cutting & Grinding Fluid Series
Anti Rust Oil Series
Die Casting Product Series
Additive Package
SIMPLE USER-FRIENDLY GREEN



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**PRODUCT
CATALOG**

COMPANY INTRODUCTION

Rolitom is a manufacturer specializing in R&D, production, and sales of metalworking fluids and industrial anti-rust oils, with more than 20 years of industry experience. Our products include various water-based cutting fluids, water-based grinding fluids, anti-rust oils, stamping oils, metal working fluid additive packages, anti-rust additive packages, release agents, cleaning agents, intelligent equipment, and more. Our products have passed CTI, SGS, RoHS certification, and the factory has passed the ISO9001 quality system certification.

We provide high-quality products and services to nearly 20 countries and regions around the world, and enjoy a good reputation in the international market. Our customers include advanced and professional steel, aluminum, automotive, aerospace, electronics, glass, mining and metal processing companies. We hope to create value for our customers through high-quality products and professional services. We are not only product suppliers, but also your reliable partner to creating a brighter future for both parties and making our world cleaner and more beautiful.

We have more than 15000 square meters of standardized production workshops and 18 production lines. More than 75 workers, 15 salesmen, 20 technical engineers and 4 after-sales service teams provide strong support for our products and services. We have a complete factory production, quality control, and delivery process, as well as a complete after-sales service system. All of our products come with quality assurance and lifetime free after-sales service.



CATALOG

MICRO-EMULSION EP CUTTING FLUID (RLT-F30)

NO 1 CUTTING & GRINDING FLUID SERIES

- P04 01/Micro-Emulsion EP Cutting Fluid(RLT-F30)
- P05 02/ Water Based Micro-Emulsion EP Cutting Fluid(RLT-F50)
- P06 03/Multi-Purpose Synthetic Cutting Fluid(RLT-3060)
- P07 04/ Water Soluble Semi Synthetic Cutting Fluid (RLT-F655)
- P08 05/ Semi-synthetic Multi-purpose Cutting Fluid(RLT-250)
- P09 06/ Micro-emulsion Cutting Fluid (RLT-H100)
- P10 07/ Aluminum Wheel Cutting fluid(RLT-AW)
- P11 08/ Synthetic Cutting Fluid (RLT-F643)
- P12 09/ Glass Grinding Fluid(RLT-350B)

NO 2 ANTI RUST OIL SERIES

- P13 01/ Water-based Rust Inhibitor (RLT-P1020)
- P14 02/ Anti Rust Oil (RLT-P730)

NO 3 DIE CASTING PRODUCT SERIES

- P15 01/ Metal Die Casting Release Agent(RLT-RX77)
- P16 02/ Water Based Die Casting Release Agent(RLT-RX11)
- P17 03/ Concrete Release Agent(RLT-CRA)
- P18 04/ Die Casting Shot Bead Black & White

NO 4 SILICONE OIL SERIES

- P19 01/Modified Alkyl Aryl Silicone Oil(RLT-RX103)
- P20 02/ Silicone Emulsion(RLT-RX103-50)

NO 5 ADDITIVE PACKAGE

- P21 01/ Soluble Oil Package(RLT-101P)
- P22 02/ Semi-Synthetic Coolant Package-High oil Content (RLT- SS120A/120B)
- P23 03/ Semi-finished compound lubricant-Low oil content(RLT-FS101)
- P24 04/Barium Salt Rust Preventative Package(RLT-610)
- P25 05/ Calcium Salt Based Rust Preventative Package (RLT-620)
- P26 06/ Rust Preventative Package (RP630)
- P27 07/ Antirust Composite Agent (RR640)
- P28 08/ Water Based Rust Inhibitor (RLT – P141)
- P29 09/ Sulfonic Acids Package(RLT-T702)

NO 6 APPLICATION

DESRPTION

RLT-F30 has excellent lubricity, anti-rust, cooling and EP properties. RLT-F30 is formulated with high-effective corrosion inhibitor additive, lubricants, EP additives and so on. It does not contain sulfur, phosphor, chlorine, sodium nitrite and acid. RLT-F30 has good bio-stability to ensure long service life. RLT-F30 is suitable for CNC machine center, multi-purpose combined tool machine and centralized cooling system. RLT-F30 is suitable for the operations such as turning, drilling, grinding and CNC machine center for the material of ferrous metal, copper and aluminum.

FEATURES AND BENEFITS

- Excellent lubricity
- Good bio-stability
- Excellent protection for both ferrous and non-ferrous metals.
- Long service life
- Outstanding cleaning property

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Appearance (Neat) | Light Yellw |
| Appearance (2.5% in DI water) | Milky White |
| Specific Gravity @ 24°C | 0.965 |
| pH, (concentrate) | Not Applicable |
| pH, (10% in DI water) | 8.98 |
| Solubility in water | 100% miscible |

USAGE

- 1.Dilute by water from 1:10 to 1:30.
- 2.Use deionized water would be better.
- 3.Supplement timely while using.

APPLICATIONS

RLT-F30 is designed to be used for operations on non-ferrous and ferrous metal.

STORAGE

- Store inside warehouse
- Store out of direct sunlight
- Avoid water collecting on barrel top



WATER BASED MICRO-EMULSION EP CUTTING FLUID (RLT-F50)

DESCRIPTION

RLT- F50 has excellent lubricity, anti-rust, cooling and EP properties.
 RLT-F50 is formulated with high-effective corrosion inhibitor additive, lubricants, EP additives and so on. It does not contain sulfur, phosphor, chlorine, sodium nitrite and acid.
 RLT- F50 has good bio-stability to ensure long service life.
 RLT- F50 is suitable for CNC machine center, multi-purpose combined tool machine and centralized cooling system.
 RLT-F50 is suitable for the operations such as turning, drilling, grinding and CNC machine center for the material of ferrous metal, copper and aluminum.

FEATURES AND BENEFITS

- Excellent lubricity
- Good bio-stability
- Excellent protection for both ferrous and non-ferrous metals.
- Long service life
- Outstanding cleaning property

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Appearance (Neat) | Light Yellow |
| Appearance (2.5% in DI water) | Milky White |
| Specific Gravity @ 24°C | 0.8-0.9 |
| pH, (concentrate) | Not applicable |
| pH, (10% in DI water) | 8.5-9.5 |
| Solubility in water | 100% miscible |

USAGE

Dilute by water 1:20.

APPLICATIONS

RLT- F50 is designed to be used for operations on non-ferrous and ferrous metal.

STORAGE

- Store inside warehouse
- Store out of direct sunlight
- Avoid water collecting on barrel top

MULTI-PURPOSE SYNTHETIC CUTTING FLUID (RLT-3060)

DESCRIPTION

RLT-3060 is new generation product combining both advantages of “Synthetic fluid” and Emulsion fluid”—excellent lubricity, excellent cleanliness and cooling properties.

RLT-3060 formulated with high-effective corrosion inhibitor additive and lubricants. It does not contain sulfur, phosphor, chlorine, sodium nitrite and acid.

RLT-3060 It has long service life even without biocide because its basic components are some chemical substance with good bio-stability against rancidity.

RLT-3060 is suitable for the operations such as turning, drilling, grinding and CNC machine center for the material of ferrous metal, copper and aluminum.

FEATURES AND BENEFITS

- Excellent lubricity
- Long service life
- outstanding cleaning property
- Excellent rust protection for most ferrous metals

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------|------------------------|
| Appearance (Neat) | Clear colorless liquid |
| Appearance (2.5% in DI water) | Clear colorless liquid |
| Specific Gravity @ 24°C | 1.057 |
| pH, (Neat) | 9.14 |
| pH, (10% in DI water) | 8.96 |
| Solubility in water | 100% miscible |

APPLICATIONS

RLT-3060 can be used on cast iron, nodular cast iron and carbon steels. It is designed for light to medium duty cutting operations.

RLT-3060 is designed to be used for operations on both ferrous and non-ferrous metals.

STORAGE

- Store inside warehouse
- Store out of direct sunlight
- Avoid water collecting on barrel top

WATER SOLUBLE SEMI SYNTHETIC CUTTING FLUID (RLT-F655)

DESCRIPTION

It is made of selected lubricating, extreme pressure and anti rust additives. It does not contain harmful substances such as heavy metals, sodium nitrite and phenols. This product has excellent biological stability and strong anti foaming property. At the same time, it has excellent performance of lubrication, rust prevention and cooling. It is suitable for traditional machine tools and flexible machining systems.

It can be used for turning, milling, drilling and grinding of aluminum alloy, cast iron, alloy steel, carbon steel, die steel and other materials.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| Test item | Test method | Technical index |
|---|------------------------------|---|
| appearance | visual test | Transparent liquid |
| PH value, 5%wt | PH | 8.8~9.2 |
| Rust resistance, (cast iron, 35°C±2°C, RH>95% single tablet for 24h, laminated tablet for 8h) | GB/T 6144 | A Grade |
| corrosivity (55°C±2°C),h | steel disc | 24h, qualified |
| | red copper | 8h, qualified |
| | LY12aluminum | 8h, qualified |
| Defoaming, distilled water | GB/T 6144 | The foam is not higher than 2ml after 10min |
| Nitrite, mg/L | Precision nitrite test paper | none |

PRODUCT FEATURES

Good lubrication effect: unique lubricating additives can extend the service life of the tool and improve the surface quality of the workpiece.

Anti foam performance: scientific formulation can effectively inhibit foam formation and prevent foam overflow.

Good hard water adaptability.

Strong rust resistance and has protective effect on non-ferrous metals.

Good biological stability and long service life.

USAGE

- 1.After cleaning the container, add the semi synthetic cutting fluid concentrate into water at room temperature, and add it while stirring until a stable aqueous solution is formed. Deionized water or tap water can be used.
- 2.Recommended concentration: 5%-10%.



SEMI-SYNTHETIC MULTI-PURPOSE CUTTING FLUID (RLT-250)

PRODUCT INTRODUCTION

RLT-250 is a common type of semi-synthetic liquid, this product is designed for a variety of metal cutting and grinding cost effective, low-mineral oil, containing, water-miscible semi-synthetic coolant. It forms a long-life, stable and finely dispersed clear translucent emulsion when mixed with water, even in very harsh processing conditions, also do not need special maintenance.

It is free of nitrite, chlorine, zinc and phenols. RLT-250 is especially suitable for cast aluminum and aluminum alloys. RLT-250 also can be used for cast iron and carbon steel as well. Recommended for drilling, milling, reaming, tapping, boring, and grinding operations, up to medium machining ability operations.

CHARACTERISTIC

Long life cycle--- stable formula provides a longer service life.

Wide range of application--- not only used for cutting, but also used for grinding; Suitable for steel, cast iron, stainless steel, aluminium cooper alloy, etc.

Excellent lubrication--- better to maintain the balance of lubrication and cooling, prolong the service life of the tool, and provide an excellent surface finish.

Cleaning performance--- tiny emulsion particles reduce the amount of cooling liquid in the process, strong permeability can make cutting fluid easily into the cutting area, and timely take away debris. The cutting fluid residue easily can be removed with water, working liquid or water-based cleaning agent. And good cleaning performance keeps machine clean.

Biological stability--- can be effective against bacteria, fungi, minimize waste liquid emissions. This product can be used for a long time, do not need to add other high cost additives.

Minimize the impact on the environment--- using conventional technique and equipment for the regeneration and waste liquid emissions of cutting fluid.

INDUSTRIES

Widely used in stainless steel, die steel, cast iron, carbon steel, alloy steel, aluminium cooper alloy and various kinds of materials processing.

Used for turning, milling, drilling, reaming, grinding, boring, tapping and other processing.

Widely used in machining center, CNC and other processing equipment.

STORAGE

- Store inside warehouse
- Store out of direct sunlight
- Avoid water collecting on barrel

MICRO-EMULSION CUTTING FLUID (RLT-H100)

PRODUCT INTRODUCTION

H100 Micro-emulsion cutting fluid for High-quality water-soluble micro-emulsion cutting fluid, formulated with selected lubricating, extreme pressure, anti-rust and other additives. This product is a formaldehyde-free product with low odor and no peculiar smell. It provides a comfortable processing environment and is safer for the human body. Excellent biological stability and strong rust resistance, suitable for cutting of aluminum alloy, cast iron, alloy steel, carbon steel, mold steel and other materials.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| Test item | Test method | Technical index |
|---|------------------------------|---|
| appearance | visual test | Transparent liquid |
| PH value, 5%wt | PH | 8.8~9.2 |
| Rust resistance, (cast iron, 35°C±2°C, RH>95% single tablet for 24h, laminated tablet for 8h) | GB/T6144 | A Grade |
| corrosivity (55°C±2°C),h | steel disc | 24h, qualified |
| | red copper | 8h, qualified |
| | LY12aluminum | 8h, qualified |
| Defoaming, distilled water | GB/T6144 | The foam is not higher than 2ml after 10min |
| Nitrite, mg/L | Precision nitrite test paper | none |

PRODUCT FEATURES

- 1.No formaldehyde and other harmful substances, more secure use.
- 2.It has excellent biological stability, is not easy to be corrupted and deteriorated, and has a long service life.
- 3.The lubrication effect is good, which can prolong the service life of the tool and improve the surface quality of the workpiece.

INSTRUCTIONS

After cleaning the container, add the microemulsion cutting fluid concentrate to water at room temperature, and add it while stirring until a stable aqueous solution is formed. Recommended concentration: 5%-10%.

ALUMINUM WHEEL CUTTING FLUID (RLT-AW)

DESCRIPTION

Aluminum Wheel Cutting fluid is specially designed for aluminum wheel, improve the surface finish of the work piece. RLT-AW is designed for operation of aluminum wheel.

RLT-AW can satisfy the requirement of high speed and general cutting working of aluminum wheel. RLT-AW can improve the surface finishing obviously, extend the tool life and improve the surface finish of the work piece. RLT-AW is suitable for CNC machine center, multi-purpose combined tool machine and centralized cooling system.

FEATURES AND BENEFITS

Excellent lubricity Good bio-stability Good anti-rust properties Long service life

APPLICATION

Rough and Finish Machining of Aluminum Wheel

DILUENT STATE

Milky white

MATERIAL

Aluminum Wheel

STORAGE

Store inside warehouse
Store out of direct sunlight
Avoid water collecting on barrel top



SYNTHETIC CUTTING FLUID (RLT-F643)

PRODUCT INTRODUCTION

F643 Synthetic cutting fluid. It is a hard water-resistant water-soluble cutting fluid. It is formulated with selected lubricating, extreme pressure, anti-rust and other additives, and does not contain harmful substance such as heavy metals, sodium nitrite and phenols. This product has excellent resistance to hard water, and the working fluid formulated with hard water has good stability, is not easy to precipitate, and is not easy to break the emulsion. At the same time, it has excellent lubrication, cooling, anti-rust and other properties. Suitable for cutting of non-ferrous metals and ferrous metals.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| Test item | Test method | Technical index |
|--|------------------------------|---|
| Exterior | visual inspection | Transparent liquid |
| PH value, 5%wt | PH | 8.8~9.2 |
| 5% diluted solution rust resistance (18-28°C, 2h, cast iron chips) | JB/T9189-2016 | Grade 0, no rust |
| corrosivity (55°C±2°C), h | steel disc | 24h, qualified |
| | red copper | 8h, qualified |
| | LY12aluminum | 8h, qualified |
| Defoaming, distilled water | GB/T6144 | 10 minutes, the foam is not higher than 2ml |
| Nitrite, mg/L | Precision nitrite test paper | none |

PRODUCT FEATURES

1. Excellent hard water adaptability.
2. The lubrication effect is good, which can prolong the service life of the tool and improve the surface quality of the workpiece.
3. It has a wide range of applications and can process ferrous and non-ferrous metals.
4. Good biological stability

INSTRUCTIONS

1. After cleaning the container, add the semi-synthetic cutting fluid concentrate to water at room temperature, and add it while stirring until a stable aqueous solution is formed.
2. Recommended concentration: 5%-10%.

GLASS GRINDING FLUID (RLT-350B)

SPECIAL PROPERTIES AND APPLICATION

RLT-350B glass grinding fluid is formulated with special lubricant, anti-rust additive and base component. It does not contain mineral oil and is pure synthetic grinding fluid. It is suitable for all kinds of glass materials.

1. Good bio-stability against rancidity, provide long service life for not containing mineral oil and animal and plant oil.
2. Free from sulfur, phosphorus and chlorinated paraffin. Environmentally friendly operations and easily recycled
3. Could be used as buffer solution, no sodium nitrite and phenol, nonpoisonous.
4. Good anti-foam properties, transparent excellent visibility
5. Stable in both hard and soft water.

TYPICAL TECHNICAL DATA

RLT-350B Index Test Method
Concentrate
Appearance Colorless transparent liquid —
Specific gravity 1.09 GB/T2540

5% DILUTE

Appearance Colorless transparent liquid —
Defoaming test Pass GB/T6144
Anti-rust test Pass GB/T6144
PH value 8.5~9.8 PH test paper

USAGE

1. Dilute by water from 1:10 to 1:30. Use deionized water would be better.
2. Supplement timely while using.

PACKAGE

200L or 18L steel barrel



WATER-BASED RUST INHIBITOR (RLT-P1020)

DESCRIPTION

RLT- P1020 Water-based rust inhibitor is a kind of high quality water soluble rust inhibitor. It is composed of longcarbon chain polycarboxylic acid and organic amine. The product has good water solubility, transparent and clearwater solution, and good rust resistance. It is suitable for the rust prevention between the black metal processes,semi-finished products and finished products during the process of mechanical manufacturing and maintenance.It is suitable for iron system materials such as cast iron, carbon steel, alloy steel, etc.

PHYSICAL AND CHEMICAL PROPERTIES

| Test Item | Test Method | Quality Index |
|---|------------------------------|---------------------------|
| Appearance | Visual inspection | Clean |
| Diluent appearance, 5%wt | Visual inspection | colorless and transparent |
| PH, 5%wt | PH meter | 9.0-10.0 |
| Rust protection (cast iron filings, 3% wt, 18 to 25°C, 2h) | JB/T9189-2010 | Grade 0, non-rust |
| Corrosion (45# steel, full immersion at 55±2°C, 168h) | GB/T 6144 | Qualified |
| Nitrite, mg/L | Precision nitrite test paper | Non |

PRODUCT FEATURES

Strong antirust, good protection during low concentration.
Good water solubility and can dissolve with water in any proportion.
Low residue, easy to clean
Good adaptability to hard water.

APPLICATION

1. It can be used as antirust additive in metalworking fluid.Application
2. It can be directly diluted and used as black metal antirust water.

USAGE

1. Recommended concentration: 3%-5%.
2. Operating temperature: normal temperature can be used, heating can improve the drying efficiency.
3. Attention: the original rust should be removed before the anti rust treatment, otherwise the anti rust effect will be affected.
4. Post treatment: the antirust film is formed when the workpiece is dried or dried naturally.
5. After antirust treatment, rain or other liquid contamination should be prevented to avoid rust failure.



ANTI RUST OIL (RLT-P730)

DESCRIPTION

P730 is a soft film type anti-rust oil, which can displace sweat and water vapor. The oil film is thin, transparent and has low odor. It is widely used for rust prevention of ferrous and non-ferrous metals, and the rust prevention period can be up to 12 months. It has good isolation effect on salt spray.

PHYSICAL AND CHEMICAL PROPERTIES

| Test Item | Test Method | Quality Index |
|--|-------------------|---------------------------------|
| Appearance | Visual inspection | Brown yellow transparent liquid |
| Viscosity @40°C, cSt | GB/T265 | 30-40 |
| Flash point, °C | | >160 |
| Oil base stability @52°C, 72h | GB/T3536 | Qualified |
| Corrosion (Red copper, full immersion at 100±2°C±2°C, 3h) | GB/T5096 | Grade 1 |
| Rust proof type (salt spray test), 45# steel, 24h | SH/T0081 | Qualified |

APPLICATION

This product is suitable for rust prevention between the processes of steel parts, but also suitable for various metal products transport rust prevention and storage rust prevention.

USAGE

1. After the workpiece is cleaned and dried, oil is applied by dipping, brushing or spraying at room temperature.
2. precision parts should be sealed and stored after oil, with dust adhesion.

ATTENTION

1. The oil tank should be covered when not in use to avoid oil pollution.
2. The metal parts must be cleaned and dehydrated before being transferred into this product.



DIE CASTING RELEASE AGENT (RLT-RX77)

DESCRIPTION

It is concentrated release agent without additional water added. It can reach 1:500 dilution ratio with clean water, pure water based.

PRODUCT FEATURES

Excellent resistance to high temperature and excellent performance of lubricity.
Does not affect the post-processing performance (such as painting, electroplating, printing) of castings.
Excellent resistance to high temperature, no residues, no smoke on the die and molded part.

RECOMMENDED TAP WATER DILUTION RATIO

Rx77 (10) : 1: 100-120
RX77 (20) : 1: 200-250
RX77 (30) : 1: 250-300
RX77 (40) : 1: 400
RX77 (50) : 1: 500

APPLICATION

It can be used in many kinds of metal die casting, such as Aluminum, Magnesium, Zinc alloy die casting.
It is especially suitable for applications with high die temperatures and for the production of big, heavy and complicated parts.

PACKAGE

To be packed in plastic barrel of 20KG, 25KG, 200KG or other package on request.



WATER BASED DIE CASTING RELEASE AGENT (RLT-RX11)

DESCRIPTION

This Water Based Die Casting Release Agent is suitable for aluminum die casting. Our unit research to process WGN-T602 die-casting Stripping Agent as high temperature type of separatory type (stripping mould) made from various oil fat with separation emulsion agent to make additive by itself and has good lubrication and stripping mould effect

TYPICAL PROPERTIES

1. Composition: Super polymer with 99.99% purity
2. Appearance: Aqueous white milky liquid
3. Active Ingredient, %: 100%

PRODUCT FEATURES OF DIE CASTING RELEASE AGENT

High temperature resistance
Excellent performance of lubricity
No affect on the post-processing performance (like painting, printing and electroplating) of castings
No residues and no smoke on the die and molded component

APPLICATIONS

This is suitable for metal die casting, including magnesium, aluminum and zinc alloy die casting. It can be used for applications with high die temperatures and for producing complicated, heavy and large components. When dilution for it, put stripping agent in container and then fill in with tap water in times as stirring to be even emulsion liquid for casting temperature and can be spraying (spraying on mould cavity with spraying gun) or brushing (use hair brushing brushes on cavity with spraying gun) or brushing (use hair brushing brushes on mould temperature at 180C 300C best and spraying more times if exceeding this temperature

RECOMMENDED USAGE

Dilution ratio of 1:80-150 times with treated water.

PACKAGE

It is packaged in 25kg, 200kg and other capacities of plastic barrels.

Product Storage and Handling:

Once used, the product must be sealed tightly and kept in a cool dark place. 12 months after manufacture is the time period for which product retains sufficient quality. It is a non-hazardous chemical, which can be transported with ease.

CONCRETE RELEASE AGENT (RLT-CRA)

DESCRIPTION

Concrete release agents are also known as release lubricants, is a kind of lubrication applied to the inner wall of the template and isolation, so that the concrete can be smoothly separated from the formwork when the mold is removed, and the concrete shape is intact quality. Compared with traditional release material oil or waste engine oil, the release agent has easy release and non-contamination of concrete surface, no corrosion of the template, easy to apply, low price and so on.

PERFORMANCE ADVANTAGES

1. Protect the template and extend the life of the template.
2. It is beneficial to improve the appearance quality of concrete.
3. The surface of the paint film has good surface finish, naturally forming enamel, easy to remove film and clean, and improve work efficiency.
4. Wear-resistant, good adhesion, can make the template reuse multiple times.
5. Widely used, can be used for steel molds, wood molds, bamboo molds, etc.

CONSTRUCTION PROCESS

1. This product is used in accordance with the ratio of 1:5.
2. Clean the template before painting.
3. Stir the product evenly and spray it on the template with a spray gun or a brush.

PRECAUTIONS

1. This product is specially lubricated, and should be taken care during construction to prevent leakage and slipping.
2. Avoid raining
3. Do not store in direct sunlight.

PACKAGING AND STORAGE

1. 170kg/barrel
2. It should be stored in a cool, dry and ventilated place indoors.

DIE CASTING SHOT BEAD BLACK & WHITE

DESCRIPTION

Die Casting Shot Bead Black & White consists of graphite balls of standard density and diameter (1.5 mm to 3 mm) based options. This range of bead is required for magnesium and aluminum die casting process under high pressure. This type of bead improves properties of plunger lube to extend service life of plunger tip. Free from grease and oil, this shot bead does not cause environmental pollution after completion of die casting work. It maintains cleanliness of casting part surface and surrounding area. Offered shot bead helps to form a sealed layer around plunger tip that inhibits leakage of molten metal on tip. Moreover, these white and black beads check carbonization of plunger sleeve and tip. Good lubricating attributes and unique anti wear properties of Die Casting Shot Bead Black & White helps to minimize project cost and time of die casting.

FEATURE & BENEFITS OF DIE CASTING SHOT BEADS

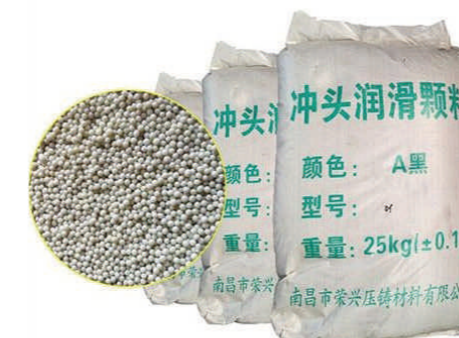
- 1, Great anti-wear ability : extending service life of tip
- 2, No Carbon residue : improve productivity
- 3, Superb lubrication ability : decrease using oil quantity
- 4, Prevent carbonization and sticking sludge on tip and sleeve
- 5, Economical plunger oil : decreased using quantity and extended service life of tip.
- 6, Proper viscosity can make automatic supply easy

APPLICATIONS

For small, medium and big size plunger system of die casting machine

PACKAGE

To be packed in braided bag of 25KG.



MODIFIED ALKYL ARYL SILICONE OIL (RLT-RX103)

DESCRIPTION

RLT-RX103 is a modified silicone fluid of medium viscosity whose special chemical structure imbues it with the benefits of silicone fluids and mineral oils.

RLT-RX103 is widely used for die casting release agent. It is superior to conventional silicone fluids when the finished parts are subsequently to be painted, printed, coated or bonded. An outstanding release effect is even obtained when extremely small amounts of the release agent are used. RLT-RX103 exhibits excellent film forming properties.

PRODUCT DATA

| Typical general characteristics | Inspection Method | Value |
|---------------------------------|-------------------|-------------------------------|
| Appearance | | Clear, colorless to yellowish |
| Viscosity, kinematic at 25°C | | 900-1500 mm ² /s |
| Viscosity, dynamic at 25°C | | 800-1400 mPa.s |
| Refractive index at 25°C | | approx. 1.4640 |
| Density at 25°C | DIN 51757 | 0.912 g/cm ³ |
| Volatility | 5g/2h/230°C | 1.5% |

APPLICATION

- It can be used in many kinds of metal die casting, such as Aluminum, Magnesium, Zinc alloy die casting.
- It is especially suitable for applications with high die temperatures and for the production of big, heavy and complicated parts.

SILICONE EMULSION (RLT-RX103-50)

DESCRIPTION

RLT-RX103-50 is a 50% solid content of RLT-RX103 modified silicone oil with stable quality, the color is milk white and light blue, it can be stored for longer than 2 years without layering.

RLT-RX103 is widely used for die casting release agent. It is superior to conventional silicone fluids when the finished parts are subsequently to be painted, printed, coated or bonded. An outstanding release effect is even obtained when extremely small amounts of the release agent are used. The result is an easy, accurate reproduction of every surface detail of the molded article. RLT-RX103 exhibits excellent film forming properties.

PRODUCT FEATURES

- Excellent performance of lubricity.
- Does not affect post-processing performance (such as painting, electroplating, printing) of castings.
- Excellent resistance to high temperature, no residues, no smoke on the die and molded part.

APPLICATIONS

- It can be used in many kinds of metal die casting, such as Aluminum, Magnesium, Zinc alloy die casting.
- It is especially suitable for applications with high die temperatures and for the production of big, heavy and complicated parts.

SOLUBLE OIL PACKAGE (RLT-101P)

DESCRIPTION

RLT-101P is a multi-functional soluble oil package based on paraffinic base oil. It can produce a wide range of high-performance soluble oil with excellent lubricity, corrosion inhibition and emulsion stability.

RLT-101P contains some special lubricants, and provides excellent cooling and lubricity properties for light-to-medium duty applications on ferrous and non-ferrous metals, resulting in extended tool life and good surface finishes on machined parts. Compared to traditional soluble oil, it has been special formulated to provide enhanced rust protection, bacteria prevention, and greater emulsion stability.

RLT-101P has very low foaming tendency, which allows its use in high-speed applications. It exhibits good hard water stability, and can maintain stable with water hardness up to 300-500ppm. RLT-101P performs good bio-stability. It is mild and non-irritating to skin. Manufacturers can add some EP additives in the formulation to improve overall performance.

FEATURES AND BENEFITS

Excellent emulsification of paraffinic base oil
 Excellent rust protection
 Good hard water stability
 Low foaming property

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------|
| Appearance | Clear Yellow Liquid |
| Specific Gravity @ 25°C | 0.99 |
| pH, 5% in water (20% in paraffinic oil) | 9.1 |
| SO 101P | 15%-30% |
| Paraffinic base oil | 85%-70% |

APPLICATION

RLT-101P is recommended for light to medium duty operations on a wide variety of ferrous and non-ferrous metals (except magnesium alloys). Manufacturers can add some EP additives in the formulation to improve overall performance.

STORAGE

Store inside warehouse
 Store out of direct sunlight
 Avoid water collecting on barrel top

SEMI-SYNTHETIC COOLANT PACKAGE-HIGH OIL CONTENT (RLT- SS120A/120B)

DESCRIPTION

ROLITOM Semi-Synthetic Coolant Package-High oil Content is a semi-synthetic cutting fluid compound agent specially developed for metal processing. This product must be used with component B. By adding base oil with different proportions of each component, a semi-synthetic Microemulsion Cutting Fluid with high cost performance ratio can be prepared. The semi-finished compound package does not contain harmful substances such as heavy metals, sodium nitrite and phenols. The prepared product has good stability and long service life.

FEATURES AND BENEFITS

- The finished product has excellent cooling, cleaning and rust prevention functions.
- Microemulsion has good stability and long service life.
- Excellent lubrication performance, can prolong the service life of the tool and improve the surface quality of the workpiece.
- Using non-standard oil as base oil can greatly reduce the comprehensive cost.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| RLT- SS120A/120B Semi-Synthetic Coolant Package-High oil Content | Unit | Technical indicators |
|--|-------------------|----------------------|
| Physical state | / | Transparent liquid |
| Color | / | light yellow |
| PH5% | / | 9.05 |
| Density @ 20°C | kg/m ³ | 1.15±0.05 |

| Appearance | Test item | Test method | Technical index | |
|------------------|---|-------------------|----------------------|---------|
| Appearance | Concentrated liquid | visual inspection | transparency liquid | |
| ph value | 5% wt. Diluent | visual inspection | Homogeneous emulsion | |
| Finished product | 5%wt | ph meter | 9.05 | |
| | Rust resistance, (cast iron, 35°C±2°C, RH>95%; Single piece 24h, lamination 8h) | GB/T6144 | Level A | |
| | Corrosivity of aluminium, (55 ~C+2 ~C; 8h) | steel disc | GB/T6144 | Level A |
| | | Red copper | | Level A |
| LY12 aluminum | | Level A | | |

SEMI-FINISHED COMPOUND LUBRICANT-LOW OIL CONTENT (RLT-FS101)

DESCRIPTION

RLT-FS101 Low Oil Semi-Synthetic Compound Lubricant is a low oil-containing compound specially developed for metal processing. The agent is carefully prepared by using a lubricating additive, a rust preventive agent, a non-ferrous metal corrosion inhibitor, etc., and a simple cost-effective synthetic grinding and cutting fluid can be prepared by simply adding water. The finished product has good cooling effect, good defoaming, excellent lubrication and rust resistance, and does not contain harmful substances such as heavy metals, sodium nitrite and phenols.

It can be used for the processing of cast iron, alloy steel, carbon steel, aluminum, aluminum alloy and other materials.

FEATURES AND BENEFITS

- The water-mixed finished product has good cooling, lubrication, cleaning and anti-rust functions.
- Water-soluble processing fluid is stable for a long time.
- Extend the tool life and improve the surface quality of the workpiece.
- Hard water adaptability is good.
- Waste liquid treatment is convenient and environmentally friendly.
- Defoaming is fast.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | Test item | Test method | Technical index | |
|------------------|---|-------------------|----------------------|---------|
| Appearance | Concentrated liquid | visual inspection | transparency liquid | |
| ph value | 5% wt. Diluent | visual inspection | Homogeneous emulsion | |
| Finished product | 5%wt | ph meter | 8.8-9.2 | |
| | Rust resistance, (cast iron, 35°C±2°C, RH>95%; Single piece 24h, lamination 8h) | GB/T6144 | Level A | |
| | Corrosivity of aluminium, (55 ~C+2 ~C; 8h) | steel disc | GB/T6144 | Level A |
| | | Red copper | | Level A |
| LY12 aluminium | | Level A | | |

APPLICATION

It can be used for the processing of cast iron, alloy steel, carbon steel, zinc alloy, aluminium, aluminium alloy and other materials.

USAGE METHOD

1. Blending: Water is added to the compounding agent at a normal temperature in proportion, and the synthetic concentrated liquid is obtained after the mixture is clear and transparent.
2. Recommended ratio: 45-55%.

BARIUM SALT RUST PREVENTATIVE PACKAGE (RP610)

DESCRIPTION

RLT- 610 is a high performance rust preventative package based on barium salt.

RLT- 610 is low viscosity and easy to blend. It is soluble in solvent and mineral oil to meet a full range of treat level and performance requirements.

RLT- 610 contains polar compounds which have magnetic attraction to metals. It offers excellent water displacement & separation properties, and rust protection for most metals. It leaves an ultra thin, almost colorless protective film on the metal surface, when blended with carriers.

FEATURES AND BENEFITS

Outstanding salt spray protection
Excellent water displacing & separating properties
Non-corrosive to a variety of non-ferrous metals
Leaves a thin, colorless protective film
Excellent compatibility with most solvent and mineral oil
Low viscosity, easy to be blend

APPLICATIONS

RLT- 610 can be used for protection of finished parts in indoor storage for at least twelve months, as well as short period of outdoor exposure.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | Amber liquid |
|-------------------------|--------------|
| Specific Gravity @ 25°C | 0.993 |
| Flash Point, COC, °C | 126 |
| Viscosity @40°C | 122 |

CALCIUM SALT BASED RUST PREVENTATIVE PACKAGE (RP620)

DESCRIPTION

RLT-620 is a high performance rust preventative package based on calcium salt, which is free from barium and heavy metals.

RLT-620 is low viscosity and easy to blend. It offers excellent compatibility with most solvent and mineral oil. RLT-620 provides outstanding water displacement & separation properties, and rust protection for most metals. It leaves an ultra thin, almost colorless protective film on the metal surface, when blended with carriers.

FEATURES AND BENEFITS

- Free of barium and heavy metals
- Outstanding salt spray protection
- Excellent water displacing & separating properties
- Non-corrosive to a variety of non-ferrous metals
- Leaves a thin, colorless protective film
- Excellent compatibility with most solvent and mineral oil
- Low viscosity, easy to be blend

APPLICATION

RLT- 620 can be used for protection of finished parts in indoor storage for at least twelve months, as well as short period of outdoor exposure.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------|-------------------|
| Appearance | Dark Amber liquid |
| Specific Gravity @ 25°C | 1.029 |
| Flash Point, COC, °C | ≥120 |
| Viscosity @40°C | 164 |

RUST PREVENTATIVE PACKAGE (RP630)

DESCRIPTION

RLT- RP630 Rust preventative package compound is prepared from a variety of antirust agents, film-forming agents and cosolvent. This product has excellent anti emulsification performance, can quickly separate from water, prevent the emulsification and whitening of antirust oil, and maintain the basic performance stability of antirust oil; The compound has good compatibility with base oil and solvent oil, is miscible with paraffin base oil, maintains a clear and transparent state, and has excellent damp heat resistance and salt spray resistance to steel parts, cast iron and other metals.

PHYSICAL AND CHEMICAL PROPERTIES

| Test Item | Test Method | Quality Index |
|---|-------------------|---------------|
| Appearance | Visual inspection | Dark brown |
| Kinematic viscosity @40°C, cSt | GB/T265 | 650-850 |
| Flash point | GB/T3536 | 140 |
| Rust resistance (salt spray test, 15%, 45# steel) | SH/T0081 | Qualified |

USAGE

- 1.It can be prepared into dehydrated, replaceable antirust oil, sealed antirust oil and thin antirust oil.
- 2.Recommended dosage: 8% - 15%. The dosage can be adjusted according to the anti rust requirements.
- 3.Stir evenly and use.

ATTENTION

- 1.Store in a cool, ventilated and dry warehouse.
- 2.The oil tank shall be covered when not in use to avoid oil pollution.

ANTIRUST COMPOSITE AGENT (RR640)

PRODUCT INTRODUCTION

RLT- RR640 Antirust Composite Agent is composed of various anti rust agents, filmforming agents, and co solvents. This composite agent has good compatibility with baseoil and solvent oil, and maintains a clear and transparent state when mixed with paraffinbased base oil. It has superior resistance to damp heat and salt spray on metals such assteel and cast iron.

PHYSICAL AND CHEMICAL PROPERTIES

| Test Item | Test Method | Quality Index |
|---|-------------------|---------------|
| Appearance | Visual inspection | Dark brown |
| Kinematic viscosity @40°C, cSt | GB/T265 | 650-850 |
| Flash point | GB/T3536 | >140 |
| Rust resistance (salt spray test, 15%, 45# steel) | SH/T0081 | Qualified |

USAGE

1. It can be formulated into quick-drying, dehydration replacement, oil film, and sealed anti rust oils.
2. Recommended dosage: 8% -15%. The dosage can be adjusted according to rust prevention requirements
3. Stir well before use

ATTENTION

1. Store in a cool, ventilated, and dry environment.
2. The oil tank should be covered when not in use to avoid oil contamination.

WATER BASED RUST INHIBITOR (RLT-P141)

DESCRIPTION

RLT-P141 rust inhibitor is a high-quality and high-efficiency water-soluble rust inhibitor. It is composed of long carbon chain polycarboxylic acid and organic amine, without phosphorus, boron and other elements. The product has excellent water solubility, transparent water solution and excellent rust resistance. It is suitable for anti-rust of ferrous metals in the process of machinery manufacture and maintenance, semi-finished products and finished products. It is suitable for iron series materials such as cast iron, carbon steel and alloy steel.

FEATURES AND BENEFITS

- Strong rust resistance, good protection for ferrous metals at low concentration.
- Good water - soluble, can be mixed with water in any proportion.
- Low residue, easy to clean by water - based cleaner or solvent cleaner.
- Good adaptability to hard water.
- Waste liquid treatment is convenient and environmentally friendly.

PHYSICAL AND CHEMICAL PROPERTIES

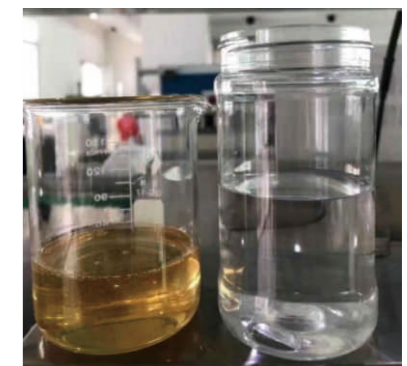
| Test item | Test method | Technical index |
|--|------------------------------|---------------------------------|
| Appearance | Visual test | Brown translucent - transparent |
| Diluent appearance, 1%wt | Visual test | Colorless and transparent |
| PH value, 1% wt | PH meter | 8.96 |
| Density @ 20°C | | 1.153 |
| Rust protection (cast iron, 0.5%wt, 18-25°C, 2h) | JB/T9189-2010 | Grade 0, no rust |
| Corrosion (45# steel, 55±2°C full immersion, 168h) | GB/T 6144 | Qualified |
| Nitrite, mg/L | Precision nitrite test paper | None |

APPLICATION

- 1,It can be used as an anti-rust additive in metal processing fluid.
- 2,It can be directly diluted and used as anti-rust water for ferrous metals.
- 3,It can be applied to surface treatment agents such as dewaxing water, passivating liquid, sealant, emulsifying antirust liquid, antifreeze liquid, water quenching liquid, water-borne antirust paint, etc.

USAGE

- 1, Recommended concentration: 0.2% - 2%. The use concentration can be adjusted appropriately according to the requirements of rust prevention.
- 2, Working temperature: normal temperature can be used, heating can improve drying efficiency, but do not boil, otherwise the concentration changes greatly.
- 3, Treatment time: soak for 2-5 minutes, spray for 2 minutes.
- 4, Before processing: before rust-proof treatment, the workpiece needs to remove the original rust, otherwise it will affect the effect of rust-proof.
- 5, After processing: the workpiece drying or natural drying that the formation of rust film.
- 6, After anti-rust treatment, rain water or other liquids should be prevented from contaminating, so as to avoid the failure of anti-rust.



SULFONIC ACIDS PACKAGE (RLT-T702)

DESCRIPTION

RLT-T702 It is an anionic surfactant with strong hydrophilicity, excellent emulsifying performance, and good antirust effect on metals.

RLT-T702 This product can be used as an emulsifier to prepare metal processing emulsified oil, micro-emulsion cutting fluid, etc. It can also be used as foaming agent, lubricant and detergent in textile, printing and dyeing, washing and other industries.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------------|----------------------|
| Appearance | brown viscous liquid |
| Sodium sulfonate content | ≥95% |
| mineral oil content | ≤5% |
| Inorganic salt content | ≤0.35% |
| Water | ≤1% |
| Corrosion (copper sheet, 100°C), 2H | Pass |

INSTRUCTIONS

1. Since the product is used in different systems, the emulsifying effect is different, it is recommended to test it before use.
2. Recommended ratio: 1-10%.

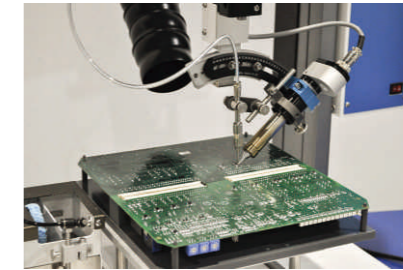
STORAGE

- Store inside warehouse
- Store out of direct sunlight
- Avoid water collecting on barrel top

APPLICATION



Automobile Making



3C Electronics



Water treatment



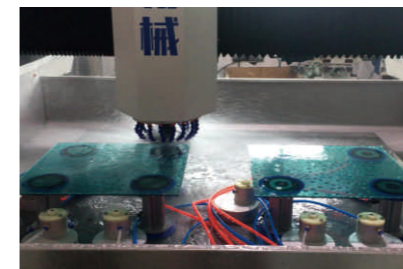
Shipping Industry



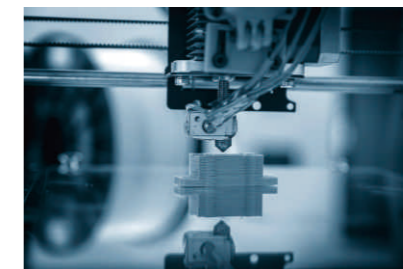
Aerospace



War Industry



Glass processing



3D printing



Spinning



Precision machining



Aluminum processing



Pressure casting



Steel



Heat processing



Glass processing