FUTURA

Innovating the Future

Metal-working Fluid
Industrial Lubricant

FUTURA Holycool

Water Miscible Metal Working Fluid

	appearance
Holycool 733 A semi-synthetic high-lubricity cutting fluid specifically designed for aluminum, suitable for medium to low-load machining.It is classified as a micro-emulsion, characterized by excellent stability and free from chlorine-based extreme pressure additives. This cutting fluid exhibits outstanding stability, corrosion protection, good cooling properties,anti-foaming characteristics, and resistance to microbial growth. Its excellent lubricating performance contributes to the extended lifespan of cutting tools.	**concentrate** yellow-brown transparent **diluted solution** white translucent
Holycool 736 A cutting fluid specifically designed for aluminum processing, free from chlorine-based extreme pressure additives. It provides excellent protection, anti-oxidation, corrosion resistance, and lubrication properties for aluminum materials. This fluid helps enhance the surface finish of aluminum during machining, and it comes with the advantages of low foaming, high cleanliness, and odor-free characteristics. It is suitable for medium to high-load processing in applications such as turning, milling, turning-milling compound processing, and tapping.	**concentrate** yellow transparent **diluted solution** white translucent
Holycool 745 Designed for processing both aluminum and steel materials, this cutting fluid is free from chlorine-based extreme pressure additives. It exhibits excellent cutting performance, providing a smooth and glossy surface for the workpiece. With outstanding emulsion stability, it avoids creating a sticky sensation. Additionally, it maintains high stability and resists deterioration, demonstrating anti-microbial growth characteristics. Suitable for processing aluminum and steel materials in applications such as turning, milling, drilling, tapping, broaching, and sawing.	**concentrate** yellow-brown translucent **diluted solution** white translucent
Holycool 903 A specialized fully synthetic cutting fluid designed for magnesium alloys, it combines high resistance to hard water, excellent cooling properties, high cleanliness, and effective foam control. It is suitable for various types of magnesium alloy materials, such as AZ91D, AM-60B, etc., and is widely used in medium to high-load cutting, turning-milling compound operations, drilling, tapping, and other processing applications.	**concentrate** brown transparent **diluted solution** light yellow transparent
Holycool 905 Suitable for cast iron and iron processing, this product offers outstanding stability in use, superior corrosion protection, environmental friendliness (free from boron, sulfur, nitrites, low allergenicity, safe and non-toxic, harmless to the human body), excellent cleanliness, and remarkable cooling performance.	**concentrate** yellow transparent **diluted solution** light yellow transparent

Holycool 906

Designed for light-load cutting processes such as thread tapping, including the processing of materials ike cast iron, iron, and carbon steel. This cutting fluid provides excellent cooling, cleanliness, and extreme pressure performance to protect the tap. Its outstanding stability and resistance to microbial growth make it suitable for use in standalone machines or central circulation systems. It also possesses anti-emulsification characteristics, making it less prone to emulsifying when contaminated with oils, allowing for the timely removal of floating oils and reducing the risk of leakage.

concentrate
light yellow translucent

diluted solution
colorless transparent

Holycool 914

Suitable for processing a variety of materials such as steel, carbon steel, high-hardness steel, etc., under medium to low cutting loads, as well as machining operations like turning and milling, drilling, or tapping. It possesses moderate extreme pressure characteristics, superior cooling properties, efficient cleaning capabilities, excellent foam suppression, and high lubricity. Moreover, it is free from sulfur, chlorine, phosphorus, and other harmful components to the human body. It also boasts a long service life and outstanding rust resistance during the processing.

- Holycool 912 is its economical version
- Holycool 913 is its economical version which is also suitable for aluminum

concentrate
yellow transparent

diluted solution
light yellow transparent

FUTURA Holygrind

Water Miscible Grinding Fluid

appearance

Holygrind 905

Applicable to various materials, including ceramics, steel, medium carbon steel, and iron, for medium to light-duty grinding operations. Particularly suitable for operations such as steel ball grinding, centerless grinding, and double-sided grinding. It is a high-penetration water-soluble fully synthetic grinding fluid with excellent wetting and cleaning properties, capable of achieving a high precision grinding with grit sizes up to 500 mesh.

concentrate
light yellow translucent

diluted solution
colorless transparent

Holygrind 908

Designed for grinding and polishing processes on materials such as steel, carbon steel, alloy steel, and iron. This is a low-foaming water-soluble fully synthetic grinding fluid, known for its excellent defoaming performance and cutting-cooling cleaning effects. It also exhibits excellent settling properties, moderate extreme pressure characteristics, and outstanding resistance to microbial growth, making it suitable for use in high-pressure cooling systems.

concentrate
light yellow translucent

diluted solution
colorless transparent

FUTURA Fullycut

Oil Based Metal Working Oil

Fullycut 204F

A tungsten steel grinding oil with a viscosity of approximately 4 mm2/s, featuring excellent characteristics such as filtration, surface cleaning, and defoaming. It can be used for grinding and light-load metal boundary modification. The product is chlorine-free and belongs to thenon-active sulfur system.

appearance
light yellow transparent

Fullycut 205F

A tungsten steel grinding oil with a viscosity of approximately 5 mm2/s, featuring superior chip removal and defoaming properties. It effectively prevents metal chips from adhering and mitigates the occurrence of sintering, extending the lifespan of grinding wheels and protecting workpieces. With low viscosity and strong penetration, it contributes to improved precision and good metal settling, reducing instances of metal chips getting lodged in the grinding wheel.It can effectively inhibit the release of cobalt and is suitable for grinding hard alloys, carbon steel, tool steel, high-speedsteel, as well as non-ferrous metal grinding, light-load cutting, and metal honing applications.

appearance
light yellow transparent

Fullycut 206F

A oil-based grinding oil with a viscosity of approximately 6 mm2/s, enriched with special extreme pressure and lubricating additives. It exhibits excellent chip removal and defoaming properties, contributing to extended grinding wheel life, protection of processed materials, and preventing the occurrence of burning. With good penetration and metal settling characteristics, it is suitable for grinding carbon steel, tool steel, high-speed steel, as well as non-ferrous metal grinding and light-load cutting.

- Fullycut 205FH is an advanced version formulated with a synthetic base oil, providing superior filtration performance, air release rates, and extended service life.

appearance
light yellow transparent

Fullycut 207F

A grinding oil for aluminum alloys with a viscosity of approximately 7 mm2/s. It rapidly removes aluminum metal chips, preventing the grinding wheel from adhering to the chips, enhancing cleaning efficiency, and reducing processing temperatures. Suitable for coreless grinding, honing, and general grinding, it effectively reduces friction, extending the life of the grinding wheel. Additionally, the product is chlorine-free, belonging to the non-active sulfur system, and has a high flash point to ensure the safety of the processing operation.

appearance
light yellow transparent

Fullycut 422E

With a viscosity of 22 mm2/s, this product is formulated with stable high-molecular-weight extreme pressure substances and non-active sulfur additives. It enhances lubrication to reduce object wear, improve surface precision, and is suitable for medium to heavy-load processing of iron and low-carbon materials. It can also be used for light-load stainless steel processing. Additionally, it incorporates rust prevention properties, is chlorine-free, and belongs to the non-active sulfur system.

appearance
light yellow transparent

Fullycut 616C

With a viscosity of 16 mm2/s, featuring excellent stable high-molecular-weight extreme pressure substances and non-active sulfur additives. It enhances lubrication and reduces object wear. The product does not contain chlorine-based extreme pressure additives.

appearance
brown transparent

Fullycut 623C

With a viscosity of 23 mm2/s, featuring excellent stable high-molecular-weight extreme pressure substances and non-active sulfur additives. It enhances lubrication and reduces object wear. The product does not contain chlorine-based extreme pressure additives.

appearance
brown transparent

Fullycut 633C

With a viscosity of 33 mm2/s, featuring excellent stable high-molecular-weight extreme pressure substances and non-active sulfur additives. It enhances lubrication and reduces object wear. The product does not contain chlorine-based extreme pressure additives.

appearance
brown transparent

Fullycut 628C

With a viscosity of 28 mm2/s, this product is formulated with a combination of extreme pressure substances and sulfur additives. It effectively enhances lubrication and is suitable for high-precision drilling, tapping, and similar machining operations. It belongs to the chlorine-based, active sulfur system.

appearance
yellow

Fullycut 729B

With a viscosity of 28 mm2/s, this product is formulated with a combination of extreme pressure substances andsulfur additives. It possesses characteristics to withstand heavy extreme pressure, effectively reducing tool wear and enhancing precision. It belongs to the chlorine-based, non-active sulfur system.

●Fullycut 723B is its low viscosity version（23 mm2/s）

appearance
milky white

Fullycut 918A

This is a product with a viscosity of 18 mm2/s, containing excellent stable multiple extreme pressure substances and ester additives. It is designed to enhance the performance of heavy-load processing applications, such as gun drilling.The low viscosity allows the product to quickly reach the machining position, achieving effective lubrication. It does not contain chlorine and belongs to the non-active sulfur system.

appearance
reddish-brown transparent

Fullycut 1022A

With a viscosity of 22 mm2/s, this product contains a significant amount of high-molecular-weight extreme pressure substances and ester additives. It significantly improves lubrication to reduce object wear and effectively minimize tool wear. Suitable for medium to heavy-duty cutting oil in the processing of medium carbon steel and stainless steel, as well as non-ferrous applications like turning, milling, and drilling. It also provides rust prevention properties, is chlorine-free, and belongs to the non-active sulfur system.

appearance
yellow transparent

FUTURA Polyshield

Corrosion Protection Oil

Polyshield S6

This is a medium to long-term water-displacing rust preventive oil (approximately 6-12 months) with a viscosity of 2.0 mm2/s. It features oil spot resistance, quick-drying, easy cleaning, and is environmentally friendly as it does not contain barium elements. It can be widely used for preserving workpieces in various mechanical processing applications.

appearance
brown transparent

Polyshield S12

Long-lasting water-displacing rust preventive oil (approximately 1 year or more), with a viscosity of 2.8 mm2/s. It features oil spot resistance, low odor, quick-drying, humidity resistance, and easy cleaning. It complies with the EU RoHS specifications, indicating the absence of heavy metals. Additionally, it has a flash point above 60 degrees,ensuring safe usage.

appearance
reddish-brown
transparent

FUTURA Molyform

Forming Oil

Molyform CU-3

This is an oil designed for drawing and stamping silicon steel sheets, with a viscosity of 1.3~1.4 mm2/s. It is suitable for high-speed processing, metal rolling, and the production of thin metal sheets and smallparts in the electronics industry. It has excellent volatility, leaves no carbon residue, and provides outstanding rust prevention, maintaining a visually appealing product appearance. It is easy to process further, such as electroplating or high-temperature treatments. The composition is mild and harmless to the human body, free from corrosive substances, and does not damage paint or seals.

appearance
brown transparent

Molyform HU-50

This is a graphite-based release agent specifically designed for hot forging, and it can be mixed with mineral oil. It effectively reduces the generation of mist in the workplace, providing excellent mold release performance and outstanding anti-wear properties. This helps minimize friction, extending the life of the molds. With a moderate viscosity, it is easy to clean and does not leave sticky residues on the workpieces. Suitable for the production of aluminum alloy die forging, hot extrusion, or hollow workpieces, with a processing temperature range of 300° C to 450° C.

appearance
black

Futura Materials Co., Ltd.

Phone : +886-4-24180222

Address : NO.977, SEC.3, ZHONGTOU W.RD.,DALI DIST., TAICHUNG CITY 41258,TAIWAN

Mail : sales@futura-innov.com

www.futura-innov.com