



WATER DILUTABLE
METALWORKING FLUIDS

NON WATER DILUTABLE
METALWORKING FLUIDS
(NEAT OILS)

水稀释性金属加工液
非水溶性金属加工介质
(纯油性)

METAL WORKING FLUIDS

金属加工介质



PETROFER
industrial oils and chemicals

METAL WORKING FLUIDS 金属加工介质

For more than 70 years we have been researching and producing metalworking fluids and cutting fluids; to improve tool life, cutting efficiency, surface finish, rust prevention and fluid life.

Our developments have created a safer working environment for users; reducing bacterial attack, skin sensitivity, mist, smoke and fumes. Our coolants are classified into water dilutable metal cutting fluids and neat cutting oils, and there are high technology cutting fluids for every machining application and material.

70余年来，我们一直在研究金属加工和生产切削液；提高刀具寿命、切削效率、表面光洁度、防锈和流体寿命。

我们的发展为用户创造了更安全的工作环境；减少细菌侵袭、皮肤敏感性、雾气、烟雾。我们的切削液分为水稀释型金属加工液和纯油性加工介质，每种加工应用和材料都有对应的高科技产品。

A WATER DILUTABLE METALWORKING FLUIDS

水稀释性金属加工液

EMULSIFIED CUTTING FLUID SERIES 乳化切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	APPLICATION COMPONENTS 应用部件
EMULCUT 100 多用途金属加工液，适用于中等硬度的水，具有良好的防锈性能、长期的PH值稳定性和很好的过滤性。 Multi-purpose metalworking fluid for medium hard water with good rust protection, and long term PH value stability and very good filterability.	9.0-9.8	钢 铸铁和铝 Steel, cast iron, aluminum	车削，钻孔，铣，铰孔，锯，磨削 Turning, drilling, milling, reaming, sawing, grinding	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission, hub and automotive component.
EMULCUT 116 多用途金属加工液，高性能冷却液，提供了高的刀具寿命和良好的表面光洁度。 Multi-purpose metalworking fluids, high-performance coolants that extends tool life and increases surface finish.	9.7-10.3	钢 铸铁 铝合金 钛合金 Steel, cast iron, aluminum alloy, titanium alloy	铣，车，拉削，锯，钻，螺纹 Milling, turning, broaching, sawing, drilling, threading	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission, hub and automotive component.
EMULCUT 160 多用途金属加工液，适用于不锈钢进行高品质的螺纹成型操作而设计的产品及最严苛的磨削加工，长期pH稳定性和出色的高润滑性。 Multi-purpose metalworking fluids developed for high quality thread forming operations on stainless steel and the most demanding grinding operations, with long term pH value stability and excellent high lubricity	9.1-9.7	钢 铸铁 铝和钛 Steel, cast iron, aluminum, titanium	车削，钻孔，铣，铰孔，锯，螺纹 Turning, drilling, milling, reaming, sawing, threading	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission, hub and automotive component.
EMULCUT 4020 多用途金属加工液，良好的冲洗性能和出色的泡沫倾向，长期pH的稳定性和优异的防腐蚀保护性能，适用于轴承行业研磨加工。 Multi-purpose metalworking fluids, good flushing performance and excellent foam tendency, long-term pH value stability and excellent corrosion protection, suitable for grinding and machining in the bearing industry.	9.9-10.9	钢 铸铁 Steel, cast iron	车，铣，钻孔，磨削 Turning, milling, drilling, grinding	轴承及汽车零部件 Bearings and automotive parts
EMULCUT 4021 多用途金属加工液，用于钢和铸铁的磨削和一般至中等负荷加工，长期pH稳定性。 Multi-purpose metalworking fluid for grinding and general to medium duty machining of steel and cast iron, long term pH stability	9.9-10.9	钢 铸铁 Steel, cast iron	车削，钻孔，铣，铰孔，锯，磨削 Turning, drilling, milling, reaming, sawing, grinding	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission, hub and automotive component.

SEMI-SYNTHETIC METALWORKING FLUID 半合成切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	TYPICAL APPLICATION 典型应用
EMULCUT GW 8 生物稳定型产品，优异的防锈性，润湿性和冷却性良好、优良的抗硬水能力、具有强力抑制细菌滋生的能力。 Ecological stabilized product with excellent rust prevention, good wetting and cooling properties, excellent hard water resistance performance and strong inhibition of bacterial growth.	9.0-10.3	低中合金钢 铸铁 铝及其合金 Low to medium alloy steel, cast iron, aluminum and its alloys	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.

SEMI-SYNTHETIC METALWORKING FLUID 半合成切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	TYPICAL APPLICATION 典型应用
EMULCUT GW 9 生物稳定型产品，优异的防锈性，润湿性和冷却性良好、优良的抗硬水能力、具有强力抑制细菌滋生的能力。 Ecological stabilized product with excellent rust prevention, good wetting and cooling properties, excellent hard water resistance performance and strong inhibition of bacterial growth.	9.0-10.3	低中合金钢 铸铁 铝及其合金 Low to medium alloy steel, cast iron, aluminum and its alloys	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
EMULCUT 6100-H 属于生态稳定型产品，具有强力抑制细菌滋生的能力，使用寿命长；pH 值稳定性好，良好的防锈保护作用；润湿性和冷却性良好，能提高加工件的加工精度。 Ecological stabilized products with strong inhibition of bacterial growth, long service life; good pH value stability, good rust protection; good wettability and cooling, can improve the machining accuracy of machined parts.	9.0-9.5	钢 铸铁 Steel, cast iron	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
EMULCUT 6500 多用途金属加工液，长期的pH稳定性、优良的防腐蚀性能，极性添加剂的含量高，加工操作表现效果优异。 Multi-purpose metalworking fluids with long-term pH value stability, excellent corrosion protection, high content of polar additives, and excellent performance in machining operations.	8.5-9.5	铝 有色金属 钢铁 铸铁 Aluminum, non-ferrous metals, steel, cast iron	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.

EMULSIFIED CUTTING FLUID SERIES 乳化切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	APPLICATION COMPONENTS 应用部件
<p>EMULCUT 4025 多用途金属切削液，它用于中等负荷的加工过程以及磨削操作，具有优良的润湿性能。</p> <p>Multi-purpose metal cutting fluid for medium duty machining processes and grinding operations with excellent wetting properties.</p>	9.5-10.5	钢 铸铁 不锈钢 Steel, cast iron, stainless steel	车削，钻孔，铣，铰孔，锯，磨削 Turning, drilling, milling, reaming, sawing, grinding	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
<p>EMULCUT 2500 多用途金属加工液，用于磨削和一般重型加工，很高的生态稳定性，能保持pH的长期稳定。</p> <p>Multi-purpose metalworking fluid for grinding and general heavy machining, very high ecological stability, long-term pH value stabilization</p>	9.0-9.5	钢 铸铁和铝的粗、精加工 Steel, cast iron and roughing and finishing of aluminum	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
<p>EMULCUT 3500 高性能金属加工液，特别适用于具有高含量的碳酸盐以及总硬度低的补给水中。</p> <p>High performance metalworking fluid, especially suitable for supply water with high carbonate content and low total hardness.</p>	9.2-9.8	钢 铸铁和铝 Steel, cast iron, aluminum	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
<p>EMULCUT 7150 多用途金属加工液，用于中型加工工艺和磨削操作，出色的PH值稳定性。</p> <p>Multi-purpose metalworking fluid for medium machining processes and grinding operations, excellent PH value stability</p>	9.0-9.6	合金钢 钛 铬镍铁合金铸铁 非常敏感的 铝合金黄色金属 Alloy steel, titanium, inconel cast iron, very sensitive aluminum alloys and yellow metals	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
<p>EMULCUT 450A 多用途金属加工液，具有非常优秀的润滑性能，生态稳定性，长期pH稳定，防腐蚀性效果好。</p> <p>Multi-purpose metalworking fluids with very good lubricating properties, ecological stability, long-term pH value stability, and anti-corrosion effects</p>	9.5-10.0	钢 铸铁 铝 Steel, cast iron, aluminum	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
<p>EMULCUT 500A 多用途金属加工液，是最新型的生态稳定型乳化液。亦即在选用原材料时已考虑到确保细菌不能其中滋生。</p> <p>Multi-purpose metalworking fluids are the latest ecologically stable emulsions that means when the raw materials are selected in such a way to avoid bacteria growth.</p>	9.0-9.6	钢 铸铁 Steel, cast iron	车削，钻孔，铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连杆，变速箱，轮毂及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.

EMULSIFIED CUTTING FLUID SERIES 乳化切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	APPLICATION COMPONENTS 应用部件
EMULCUT FT-E1 多用途金属加工液，高润滑性，即使在严苛的操作条件下也能表现出极高的性能，如铰孔或深孔镗。 Multi purpose metalworking fluid with high lubricity, capable of exhibiting extremely high performance even under harsh operating conditions, such as reaming or deep hole boring	9.0-9.5	钢 铸铁和铝 软铝合金 Steel, cast iron, aluminum, soft aluminum alloy	车削，钻孔， 铣，铰孔，锯， 磨深孔镗 Turning, drilling, milling, reaming, sawing, grinding deep hole boring	缸体，缸盖，连 杆，变速箱，轮毂 及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.

SEMI-SYNTHETIC METALWORKING FLUID 半合成切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	TYPICAL APPLICATION 典型应用
EMULCUT S20 生态稳定型产品，具有强力抑制细菌滋生的能力，pH 值稳定性好，良好的防锈保护作用、润湿性和冷却性良好，能提高加工件的加工精度。 Ecological stabilized product with strong inhibition of bacterial growth, good pH value stability, good rust protection, and good wettability and cooling properties, can improve the machining accuracy of machined parts.	9.0-9.5	钢 铸铁 Steel, cast iron	车，镗，铣，螺 纹，锯，磨 Turning, boring, milling, threading, sawing, grinding.	缸体，缸盖，连 杆，变速箱，轮毂 及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
EMULCUT S50 生态稳定型产品，pH值稳定性好，对加工件提供稳定、良好的防锈保护作用，润湿性和冷却性良好，能提高加工件的加工精度。 Ecological stabilized product, good pH value stability, provides stable and good rust protection for machined parts, good wettability and cooling properties, can improve the machining accuracy of machined parts.	9.1-9.5	钢 铸铁 Steel, cast iron	车，镗，铣，螺 纹，锯，磨 Turning, boring, milling, threading, sawing, grinding.	缸体，缸盖，连 杆，变速箱，轮毂 及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
EMULCUT S60 生态稳定型产品，pH值稳定性好，对加工件提供稳定、良好的防锈保护作用；润湿性和冷却性良好，能提高加工件的加工精度。 Ecological stabilized product, good pH value stability, provides stable and good rust protection for machined parts, good wettability and cooling properties, can improve the machining accuracy of machined parts.	9.0-9.8	钢 铁 铝及其合金 Steel, iron, aluminum and their alloys	车，镗，铣，螺 纹，锯，磨 Turning, boring, milling, threading, sawing, grinding.	缸体，缸盖，连 杆，变速箱，轮毂 及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.
EMULCUT M49 属于生物稳定型产品，优异的防锈性、润湿性和冷却性良好、具有强力抑制细菌滋生的能力。 Ecological stabilized product with excellent rust prevention, good wetting and cooling properties, and strong inhibition of bacterial growth.	9.3-9.8	铝合金 钢及铸铁 Aluminum, steel and cast iron	车削，钻孔， 铣，铰孔，锯 Turning, drilling, milling, reaming, sawing	缸体，缸盖，连 杆，变速箱，轮毂 及汽车零部件 Cylinder block, cylinder head, connecting rod, transmission ,hub and automotive component.

SYNTHETIC METALWORKING FLUID 全合成切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	TYPICAL APPLICATION 典型应用
ISOCOOL 421 极佳的冷却性和润湿性使工件的尺寸精度高。抗硬水性能好，适用于各种钢和铸铁的加工 Excellent cooling and wetting properties result in high dimensional accuracy of the workpiece. Good resistance to hard water, suitable for processing various types of steel and cast iron.	9.0-9.5	钢 铸铁 Steel, cast iron	铣，车，拉削，锯，钻，螺纹，磨削 Milling, turning, broaching, sawing, drilling, threading, grinding	齿轮、凸轮轴、曲轴及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOCOOL 521 极好的润滑性，具有防止微生物生长的能力，因此 pH 值稳定，防锈效果好 Excellent lubricity, ability to prevent microbial growth, therefore pH value stabilized, good rust protection.	9.1-9.4	钢 铸铁 Steel, cast iron	铣，车，拉削，锯，钻，螺纹，磨削 Milling, turning, broaching, sawing, drilling, threading, grinding	齿轮、凸轮轴、曲轴及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOCOOL 806 具有良好的抗乳化性、优异的耐腐蚀性能、优秀的清洗功能、具有良好的生物稳定性，能抑制微生物的生长，适用于软水和硬水。 Good anti-emulsification, excellent corrosion resistance, excellent cleaning function, good biological stability, can inhibit the growth of microorganisms, suitable for soft water and hard water.	8.0-8.5	钢 铸铁 铝 镁合金 steel, cast iron, aluminum, magnesium alloy	铣，车，拉削，锯，钻，螺纹，磨削 Milling, turning, broaching, sawing, drilling, threading, grinding	齿轮、凸轮轴、曲轴、离合器，轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOCOOL 901 多用途金属加工液，具有优异的润滑性能和切削性能，既可用于切削加工，也可用于磨削加工 Multi-purpose metalworking fluids with excellent lubricating and cutting properties for both cutting and grinding operations.	9.5-9.8	钢 铸铁 Steel, cast iron	磨削，铣，车 Grinding, milling, turning.	齿轮、凸轮轴、曲轴、离合器，轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOCOOL K001S 极好的润滑性，具有防止微生物生长的能力，pH 值稳定，防锈效果好。该产品尤其适用于航空铝合金的加工。 Excellent lubricity, ability to prevent microbial growth, pH value stability, and good anti-rust effect. This product is especially suitable for the processing of aviation aluminum alloy.	9.1-9.6	钢铁及铝合金 有色金属类 Steel and aluminum alloys, non-ferrous metals	铣，车，拉削，锯，钻，螺纹 Milling, turning, broaching, sawing, drilling, threading	齿轮、凸轮轴、曲轴、离合器，轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOCOOL 1000 BF 最新技术含胺的水溶性合成磨削冷却液，长期 pH 的稳定性和优异的防腐蚀保护性能。 The latest technology is water-soluble synthetic grinding coolant containing amines, with long-term pH value stability and excellent corrosion protection performance.	9.6-10.2	钢 铸铁 Steel, cast iron	铣，车，磨削 Milling, turning, grinding	齿轮、凸轮轴、曲轴、离合器，轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts

SYNTHETIC METALWORKING FLUID 全合成切削液系列	pH VALUE 5% pH值 5%	APPLICABLE MATERIAL 适用材质	APPLICATION RANGE 应用领域	TYPICAL APPLICATION 典型应用
ISOGRIND 60 抗硬水性能好，良好的润滑性和清洗性，高效的冷却作用、良好的抗腐蚀性可适用于硬质合金。 Good resistance to hard water, good lubrication and cleaning properties, efficient cooling effect, and good corrosion resistance can be applied to hard alloys.	9.3-9.8	钢 铸铁 铝合金 硬质合金 Steel, cast iron, aluminum alloy, cemented carbide	铣, 车, 磨削 Milling, turning,grinding	齿轮、凸轮轴、曲轴、离合器, 轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOGRIND 603 具有优越的加工性能，抗硬水性能好，即使使用硬水也不会影响溶液的稳定性 Superior processability, good resistance to hard water, even when using hard water will not affect the stability of the solution.	9.0-9.5	玻璃 硬质合金 钢 铸铁 铝合金 Glass, Carbide, Steel, Cast Iron, Aluminum Alloy	铣, 车, 磨削 Milling, turning,grinding	齿轮、凸轮轴、曲轴、离合器, 轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOGRIND 688 具有良好的润滑性，优异的防锈性能、优秀的清洗功能、良好的生物稳定性、良好的抗乳化性，适用于软水和硬水。 Good lubricity, excellent rust prevention, excellent cleaning function, good biostability, good anti-emulsification, suitable for soft and hard water.	9.5-9.8	钢 铸铁 Steel, cast iron	切削, 铣, 车, 磨削 cutting, milling, turning,grinding	齿轮、凸轮轴、曲轴、离合器, 轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts
ISOGRIND 130 优越的磨削性能，抗微生物生长的能力强，pH值长期保持稳定，防锈效果好。 Excellent grinding performance, strong resistance to microbial growth, stable pH value for a long period of time, good rust prevention.	9.0-9.5	钢、有色金属 Steel, non-ferrous metals	切削, 铣, 车, 磨削 cutting, milling, turning,grinding	齿轮、凸轮轴、曲轴、离合器, 轴承及汽车零部件 Gears, camshafts, crankshafts, and automotive parts

* pH: pH值在24内调整到给定范围-72小时，取决于补给水质量和加工操作。新制备的乳液或溶液在短期内显示较高的pH值，在首次填充时提供额外的系统保护

最新的PETROFER金属加工液技术：无硼、无FRB、长期pH稳定性、低维护

* pH: The pH value should be adjusted to the given range within 24-72 hours, depending on the quality of the supplied water and processing operations. Newly prepared lotion or solution shows a high pH value in a short time, providing additional system protection during the first filling.

Latest PETROFER metalworking fluid technology: boron free, FRB free, long term pH value stability, low maintenance

MULTI-FUNCTIONAL UNIVERSAL CUTTING OIL 多功能通用型切削油	TYPE OF BASE OIL 基础油类型	VISCOSITY GRADE (40°C) 粘度等级40°C	FLASH POINT 闪点	COPPER CORROSION 铜腐蚀	TYPICAL APPLICATION 典型应用
ISOCUT VG-SERIES (VG10,15,22,32,46) 通用型多功能切削油，适用于一般的加工操作。 General multifunctional cutting oil for general machining operations.	矿物油 Mineral oil	10-46	> 170	1a	齿轮 Gear
ISOCUT TU 低粘度通用型切削油，适用于中等负荷的加工，特别适用于齿轮加工。 Low-viscosity general cutting oils for medium-duty machining, especially for gear machining.	矿物油 Mineral oil	16	> 170	4c	齿轮 凸轮轴 曲轴 Gear, camshaft, crankshaft
ISOCUT SH 通用型高性能切削油，适用于中等负荷的拉削作业，不含钙的添加剂。 General, high performance cutting oil for medium duty broaching operations, calcium free additives	矿物油 Mineral oil	26	> 180	4c	齿轮 凸轮轴 曲轴 Gear, camshaft, crankshaft
ISOCUT E 10 C 合成切削油，具有优异的润滑性和冲洗性能，同时没有吸入危害 (H304标签) Synthetic cutting oil with excellent lubricity and flushing properties without inhalation hazards (H304 label).	合成酯 Synthetic ester	10	> 130	1b	齿轮 凸轮轴 曲轴 Gear, camshaft, crankshaft
ISOCUT E 20 C 合成切削油，适用于钢、铝、镁、钛等材质的加工和成型操作，尤其适用于重型加工。 Synthetic cutting oils for machining and forming operations on steel, aluminum, magnesium, titanium, etc., especially for heavy duty machining.	合成酯 Synthetic ester	20	> 180	1b	齿轮 凸轮轴 曲轴 Gear, camshaft, crankshaft
ISOCUT E 30 C 合成切削油，适用于多种金属材质的重型加工。 Synthetic cutting oils for heavy duty machining of many metals.	合成酯 Synthetic ester	30	> 230	1a	齿轮 凸轮轴 曲轴 Gear, camshaft, crankshaft

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B NON-WATER DILUTABLE METALWORKING FLUIDS (NEAT OIL)

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HONING AND GRINDING OIL 珩磨及磨削油系列	TYPE OF BASE OIL 基础油类型	VISCOSITY GRADE (40°C) 粘度等级40°C	FLASH POINT 闪点	COPPER CORROSION 铜腐蚀	TYPICAL APPLICATION 典型应用
SUPERFIN 100 DF 用于加工钢和铸铁的标准珩磨油，也适用于黄色金属。 Standard honing oil for machining steel and cast iron, also suitable for yellow metals	矿物油 Mineral oil	5	> 120	1a	缸体 凸轮轴 曲轴 Cylinder block, camshaft, crankshaft
SUPERFIN 200 F6 适用于钢和有色金属，拥有良好的冲洗性和润湿性。 Good flushing and wetting properties for steel and non-ferrous metals	矿物油 Mineral oil	3.5	> 100	1a	缸体 凸轮轴 曲轴 Cylinder block, camshaft, crankshaft
SUPERFIN HM 硬质合金加工专用，有效避免钴析出。也可适用于黑色金属和有色金属及铝合金的轻型和中型加工。 Specialized for the machining of hard alloys, effectively avoiding cobalt precipitation. Also suitable for light and medium machining of ferrous and non-ferrous metals and aluminum alloys.	矿物油 Mineral oil	5	> 120	1a	硬质合金刀具 Carbide Cutting Tools
ISOCUT LG 5-2 BG 合成研磨油，适用于珩磨、研磨、精磨和抛光等，可加工合金钢、铸铁、铝合金、镁合金和其他有色金属。 Synthetic lapping oils for honing, grinding, fine grinding and polishing, etc., can process alloy steel, cast iron, aluminum alloy, magnesium alloy and other non-ferrous metals.	天然气合成油 Natural gas synthetic oil	5.5	> 160	1b	轴承 Bear
ISOCUT LG 7 合成研磨油，适用于黑色金属、黄色金属和铝合金的一般加工，具有低粘度和高闪点特性。 Synthetic abrasive oil for general machining of ferrous metals, yellow metals and aluminum alloys with low viscosity and high flash point.	天然气合成油 Natural gas synthetic oil	7	> 160	1b	齿轮 轴承 Gear, bear
ISOCUT LG 7 HM-P 合成油硬质合金研磨油，也适用于一般的磨削加工，可作为PAO基础油研磨油的替代品。 Synthetic oil carbide grinding oil, also suitable for general grinding processing, can be used as a substitute for PAO base oil grinding oils.	天然气合成油 Natural gas synthetic oil	7	> 160	1b	硬质合金刀具 Carbide Cutting Tools

HONING AND GRINDING OIL 珩磨及磨削油系列	TYPE OF BASE OIL 基础油类型	VISCOSITY GRADE (40°C) 粘度等级40°C	FLASH POINT 闪点	COPPER CORROSION 铜腐蚀	TYPICAL APPLICATION 典型应用
ISOCUT LG 10 S 合成油研磨油，适用于一般的磨削加工。 Synthetic grinding oils for general grinding operations.	天然气 合成油 Natural gas synthetic oil	11	> 180	1b	硬质合金刀具 Carbide Cutting Tools
ISOCUT 10-H 通用型磨削油，适用于所有金属的磨削加工及一般性加工。 General grinding oil for grinding and general machining of all metals.	矿物油 Mineral oil	10	> 160	1b	齿轮 Gear
ISOCUT 10-H/K 高性能磨削油，拥有更好的极压性，可获得更高的表面光洁度和刀具寿命。 High-performance grinding oils with improved extreme pressure for higher surface finish and tool life.	矿物油 Mineral oil	10	> 160	1b	齿轮 Gear
ISOCUT 15-H 多功能磨削油，适用于钢、铸铁、铝、紫铜和黄铜的精加工和超精加工。 Multifunctional grinding oils for finishing and superfinishing of steel, cast iron, aluminum, copper and brass.	矿物油 Mineral oil	15	> 170	1b	齿轮 Gear
ISOCUT 15 G 适用于低合金钢和铸铁的粗加工和精加工，尤其在齿面磨削中表面出优异的性能，有效避免磨削烧伤。 Suitable for roughing and finishing of low alloy steels and cast irons, especially in tooth face grinding with excellent performance, effectively avoiding grinding burns.	矿物油 Mineral oil	15	> 170	1b	齿轮 Gear

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DEEP HOLE DRILLING OIL 深孔钻油/拉削油	TYPE OF BASE OIL 基础油类型	VISCOSITY GRADE (40°C) 粘度等级40°C	FLASH POINT 闪点	COPPER CORROSION 铜腐蚀	REMARK 备注
ISOCUT T 400 高性能深孔钻油，适用于所有的深孔钻作业，通过TBT等行业标准认证。 High-performance deep hole drilling oils for all deep hole drilling operations, certified to industry standards such as TBT.	矿物油 Mineral oil	17	> 150	4c	适用于钢件的深孔加工，尤其是单刃枪孔钻。 For deep hole drilling of steel parts, especially for single-flute gun drills.
ISOCUT T 404 和T400一样的添加剂体系，由于粘度较低，适合于较小的孔径。 Same additive system as T400, suitable for smaller pore sizes due to lower viscosity.	矿物油 Mineral oil	10	> 125	4c	适用于黑色金属和高合金钢，大进刀量的高速单刃枪孔钻。 Suitable for high-speed single blade gun hole drills with large feed rates for black metal and high alloy steel.
ISOCUT T 400 S	矿物油 Mineral oil	15	> 150	4c	广泛用于各种钢件的加工，大进刀量的高速单刃枪孔钻。 Widely used in the machining of various steel parts, high-speed single-flute gun hole drilling with large feed capacity.
ISOCUT BA 3 低粘度的高性能拉削油。 Low-viscosity, high-performance broaching oil.	矿物油 Mineral oil	16	> 140	4c	适用于钢件的拉削加工，特别适用于立式内拉和立式外拉。 Suitable for broaching of steel parts, especially for vertical internal and vertical external broaching.
ISOCUT BA 5 高合金钢的重载螺旋拉削作业。 Heavy-duty spiral broaching of high-alloy steel.	矿物油 Mineral oil	55	> 170	4b	适用于钢材的螺旋拉削，水平和表面拉削等。 For spiral drawing, horizontal and surface drawing of steel, etc.
ISOCUT BA 22 中负荷拉削油，不含钙类添加剂，延长清洗槽使用寿命。 Medium-duty broaching oil with calcium-free additives to extend cleaning bath life.	矿物油 Mineral oil	22	> 180	4c	适用于钢件的拉削加工，特别适用于立式内拉和立式外拉。 Suitable for cutting steel parts, especially suitable for vertical internal pulling and vertical external pulling.
ISOCUT BA 32 中负荷拉削油，不含钙类添加剂，延长清洗槽使用寿命。 Medium-duty broaching oil with calcium-free additives to extend cleaning bath life.	矿物油 Mineral oil	30	> 180	4c	适用于钢件的拉削加工，特别适用于立式内拉和立式外拉。 Suitable for cutting steel parts, especially suitable for vertical internal pulling and vertical external pulling.

MINIMUM QUANTITY LUBRICATION 微量切削油	TYPE OF BASE OIL 基础油类型	VISCOSITY GRADE (40°C) 粘度等级40°C	FLASH POINT 闪点	COPPER CORROSION 铜腐蚀	REMARK 备注
ISOCUT MQ 25 环保易清理的高性能切削油。 Environmentally friendly, easy-to-clean high-performance cutting oils	矿物油 Mineral oil	25	> 170	1b	适用于铝合金和有色金属的 切割等作业。 Suitable for cutting and other operations of aluminum alloys and non-ferrous metal.
ISOCUT MQ 32 环保易清理的高性能切削油。 Environmentally friendly, easy-to-clean high-performance cutting oils	矿物油 Mineral oil	30	> 170	1b	适用于铝合金和有色金属的 切割等作业。 Suitable for cutting and other operations of aluminum alloys and non-ferrous metal.
ISOCUT MQ 50 环保易清理的高性能切削油。 Environmentally friendly, easy-to-clean high-performance cutting oils	矿物油 Mineral oil	50	> 280	1b	适用于铝合金和有色金属的 切割等作业。 Suitable for cutting and other operations of aluminum alloys and non-ferrous metal.
ISOCUT M 50 脂肪醇类基础油，无分解蒸发，易脱脂。 Fatty alcohol base oil, no decompo- sition or evaporation, easy to degreasing.	脂肪醇 Fatty alcohol	30	> 160	1a	适用于铝合金和有色金属及 钛合金的切削和成型作业。 Suitable for cutting and forming operations of aluminum alloys, non-ferrous metals, and titanium alloys.
ISOCUT M 70 脂肪醇类基础油，无分解蒸发，易脱脂。 Fatty alcohol base oil, no decompo- sition or evaporation, easy to degreasing.	脂肪醇 Fatty alcohol	70	> 160	1a	适用于铝合金和有色金属及 钛合金的切削和成型作业。 Suitable for cutting and forming operations of aluminum alloys, non-ferrous metals, and titanium alloys.
ISOCUT M 82 广泛适用于多种金属和多种工艺。 Widely applicable to many metals and many processes.	合成酯 Synthetic ester	35	> 300	3a	适用于钢、铝、镁、钛等 多种金属的多种加工工艺。 Suitable for cutting and forming operations of aluminum alloys, non-ferrous metals, and titanium alloys.

SPARK EROSION FLUID 电火花加工液	VISCOSITY GRADE (40°C) 粘度等级40°C	FLASH POINT 闪点	COPPER CORROSION 铜腐蚀	REMARK 备注
<p>DIELEKTRIKUM 200 A</p> <p>电火花加工专用油，具有高闪点及良好的传热特性。</p> <p>Specialized electric discharge machining oil with high flash point and good heat transfer characteristics.</p>	2	> 105	1a	<p>适用于钢、铸铁及有色金属的各种粗、细电火花加工作业。</p> <p>Suitable for all kinds of coarse and fine EDM operations on steel, cast iron and non-ferrous metals.</p>



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