



富地润滑科技股份有限公司

FLUIDLAND LUBRICANTS
SCIENTIFIC CO., LTD.

富地润滑科技股份有限公司

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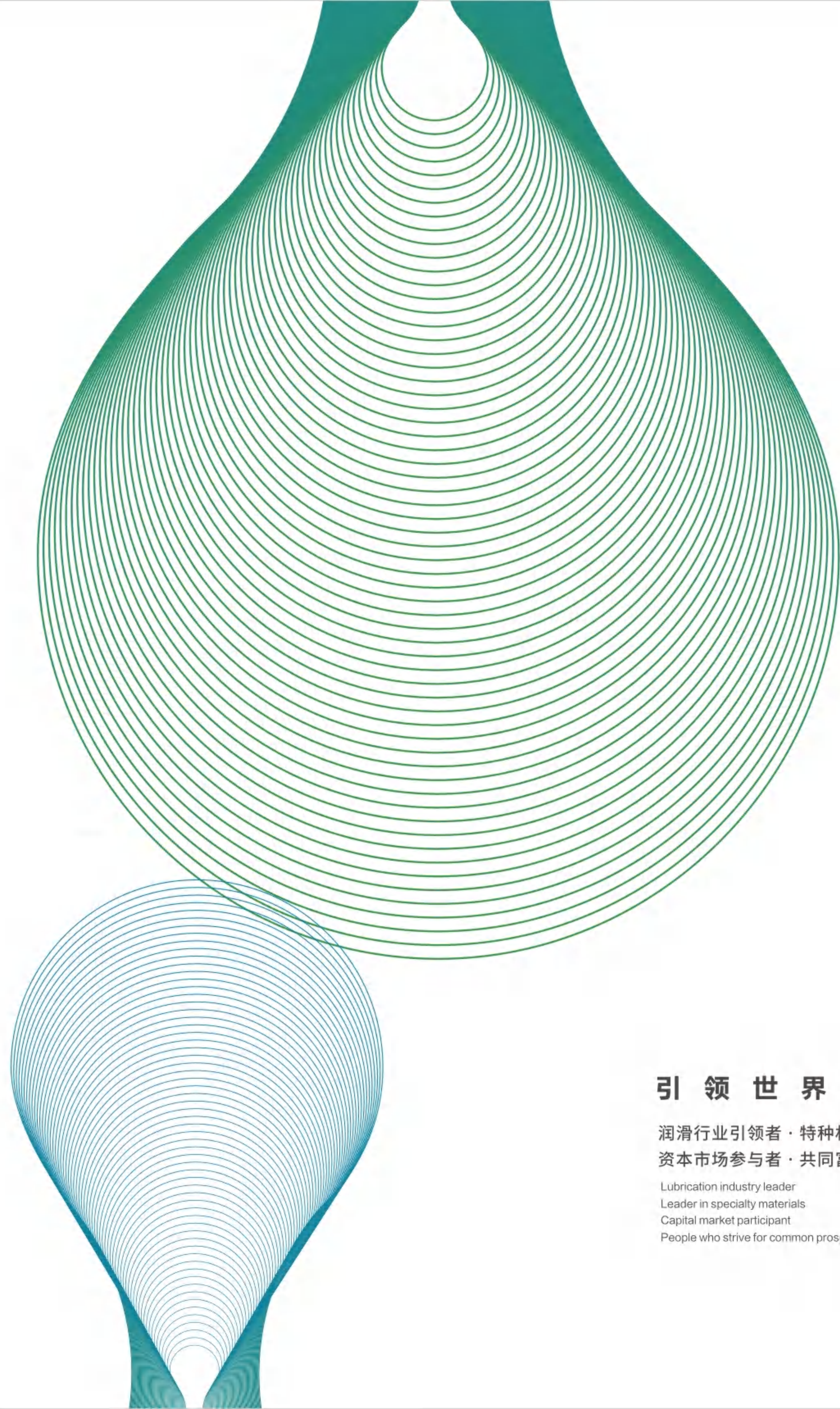
INTELLIGENT
TECHNOLOGY
WISDOM IN THE FUTURE

智能科技
智慧未来

TOP

FLUIDLAND
LUBRICANTS SCIENTIFIC CO., LTD.

富地梦 · 我的梦



引领世界动力

润滑行业引领者 · 特种材料领先者
资本市场参与者 · 共同富裕努力者

Lubrication industry leader
Leader in specialty materials
Capital market participant
People who strive for common prosperity



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Become world famous
brand of special lubricating materials

成为特种润滑材料全球著名品牌

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富地，您值得信赖的合作伙伴！

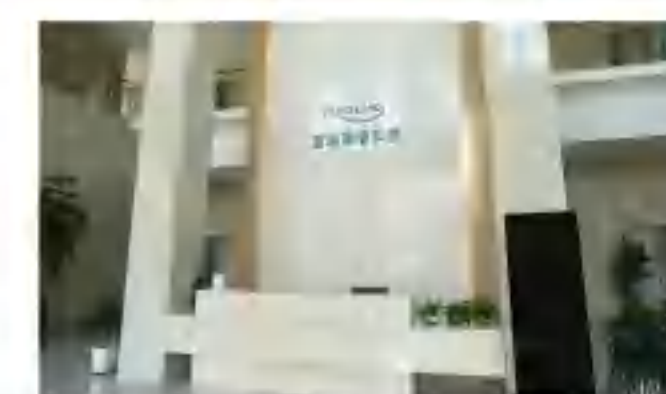
不论您在何时、何地、您的需求就是我们前进的方向，我们会不遗余力地动用所有资源，为您提供独一无二的解决方案。



富地梦·我的梦
FLUIDLAND DREAM MY DREAM

富地润滑科技股份有限公司是一家高科技中外合资企业。工厂和研发中心位于浙江省嘉兴市于城工业园区内，一期工厂占地42亩，厂区建筑面积12860平方米，基础油储存能力达到30000吨以上，年生产能力可以达到10万吨以上。公司具有强大的研发能力、现代化的生产厂房。业务覆盖工业润滑材料，航天航空、汽车、船用（含海工）润滑材料等众多领域。公司本着自主创新的核心发展理念，积极自主研发，产品填补国内、国际多项空白。研发的产品具有性能优异，绿色环保，性价比高等特点，目前多项高端润滑材料已成功应用在冶金、钢铁、汽车制造、机械制造、电子等多种行业，产品已广泛为国企、民企、外资企业所采用，并且产品已经出口国外。

公司凭借着高度的专业化和强大的技术力量，坚持以品质第一，服务至上的原则，为客户提供最优良的产品；最专业、最完善和最高效的现场服务和问题解决方案。公司针对不同客户的要求，为其量身定制针对性强的性能优异的产品和具体的产品使用方案，有效降低客户的使用和维护成本。公司将不断凭借先进的技术、性能优异的产品、丰富的经验、完善的设备和优质的服务树立良好的企业形象，承担社会责任，提升中国特种润滑材料水平。



FLUIDLAND LUBRICANT SCIENTIFIC CO., LTD. IS A HIGH-TECH SINO-FOREIGN JOINT VENTURE. THE FACTORY AND R&D CENTER IS LOCATED IN THE INDUSTRIAL ZONE, YUCHENG TOWN, JIAXING CITY, ZHEJIANG PROVINCE. THE FIRST PHASE OF THE FACTORY COVERS AN AREA OF 42 MU. THE FACTORY SPANS OVER 12,860 SQUARE METERS, AND BASE OIL STORAGE CAPACITY IS OVER 3,000 TONS. ANNUAL PRODUCTION CAPACITY CAN REACH OVER 100,000 TONS. THE COMPANY HAS STRONG RESEARCH AND DEVELOPMENT CAPABILITIES, AND MODERN PRODUCTION PLANTS. THE BUSINESS COVERS INDUSTRIAL LUBRICATING MATERIALS, AEROSPACE, AUTO, MARINE(INCLUDING OFFSHORE) LUBRICATING MATERIALS. BASED ON OUR CORE VALUE OF INDEPENDENT CONTINUOUS INNOVATION DEVELOPMENT, THE COMPANY ACTIVELY INVESTS IN INDEPENDENT RESEARCH AND DEVELOPMENT, AND THE PRODUCT FILLS THE SEVERAL BLANK OF THE MARKET NEEDS AT HOME AND ABROAD. THE PRODUCTS DEVELOPED ACHIEVE BEST-IN-FIELD PERFORMANCE WHILE BEING ENVIRONMENTALLY FRIENDLY AND COST-EFFECTIVE. CURRENTLY, MANY OF OUR HIGH-END LUBRICATING MATERIALS HAVE BEEN SUCCESSFULLY USED IN METALLURGY, IRON AND STEEL, AUTOMOBILE MANUFACTURING, MACHINERY MANUFACTURING, ELECTRONICS AND OTHER INDUSTRIES. THE PRODUCTS HAVE BEEN WIDELY USED BY STATE-OWNED ENTERPRISES, PRIVATE ENTERPRISES AND FOREIGN-FUNDED ENTERPRISES. THE PRODUCT HAS BEEN EXPORTED ABROAD AS WELL.

WITH A HIGH DEGREE OF SPECIALIZATION IN VARIOUS FIELDS AND A STRONG TECHNICAL WORKFORCE, THE COMPANY ADHERES TO THE PRINCIPLE OF "QUALITY FIRST, SERVICE FIRST" TO PROVIDE CUSTOMERS WITH THE BEST PRODUCTS; THE MOST PROFESSIONAL, MOST COMPLETE AND MOST EFFICIENT ON-SITE SERVICE AND PROBLEM SOLVING SOLUTIONS. THE COMPANY'S SOLUTIONS FOR DIFFERENT CUSTOMERS, TAILOR-MADE FOR EACH INDIVIDUAL PRODUCT USE CASE, EFFECTIVELY REDUCE THE CUSTOMER'S USE AND MAINTENANCE COSTS.

THE COMPANY WILL CONTINUE TO RELY ON ADVANCED TECHNOLOGY, HIGH-PERFORMANCE PRODUCTS, RICH EXPERIENCE, MODERN EQUIPMENT AND QUALITY SERVICE TO ESTABLISH A POSITIVE CORPORATE IMAGE, ESTABLISH A PROGRAM OF SOCIAL RESPONSIBILITY AND ENHANCE THE LEVEL OF CHINA'S SPECIAL LUBRICATING MATERIALS MARKET.

企业文化

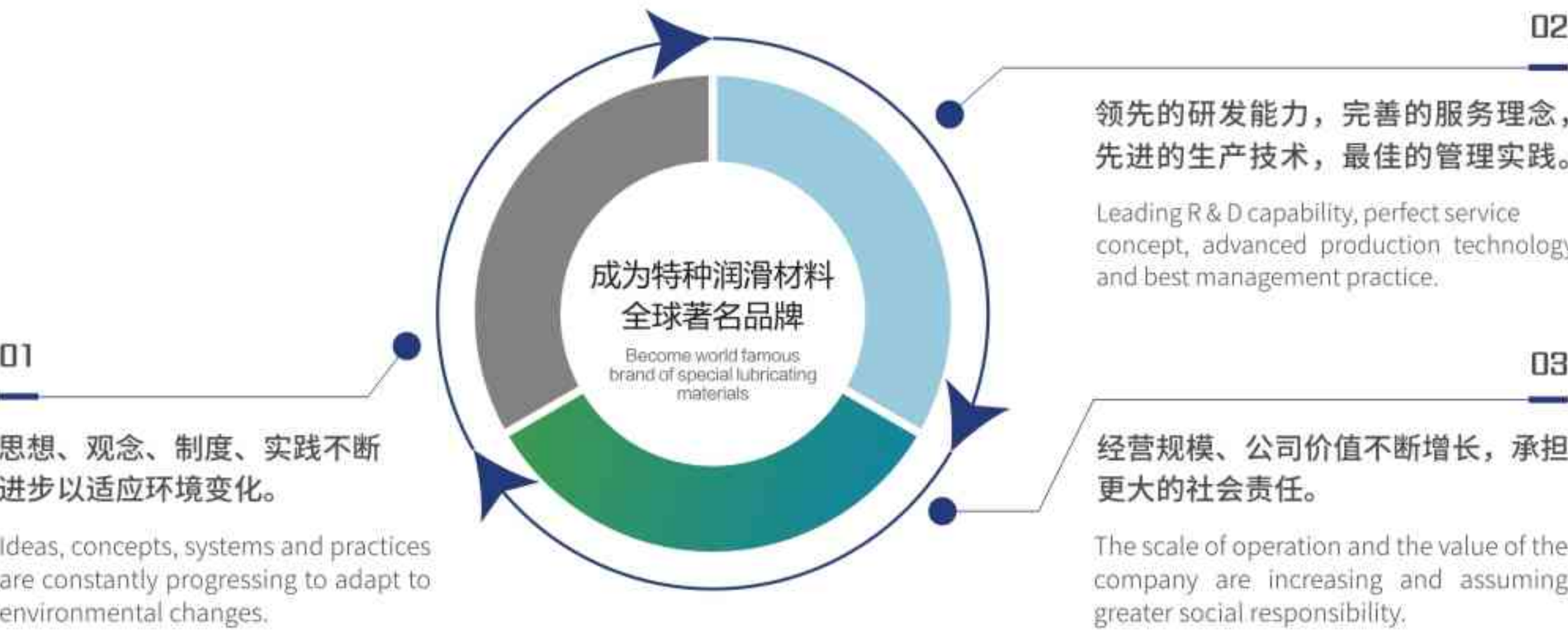
CORPORATE CULTURE

富地润滑科技理念 FLUIDLAND PHILOSOPHY

“专业打造精品，诚信实现共赢”的原则，奉行以“用户至上、质量第一、追求卓越、创造完美”的经营理念，向客户承诺负责责任的售后服务，用最好的服务来满足国内外客户的各种需求。建立与客户、供应商之间的长期良好的关系。

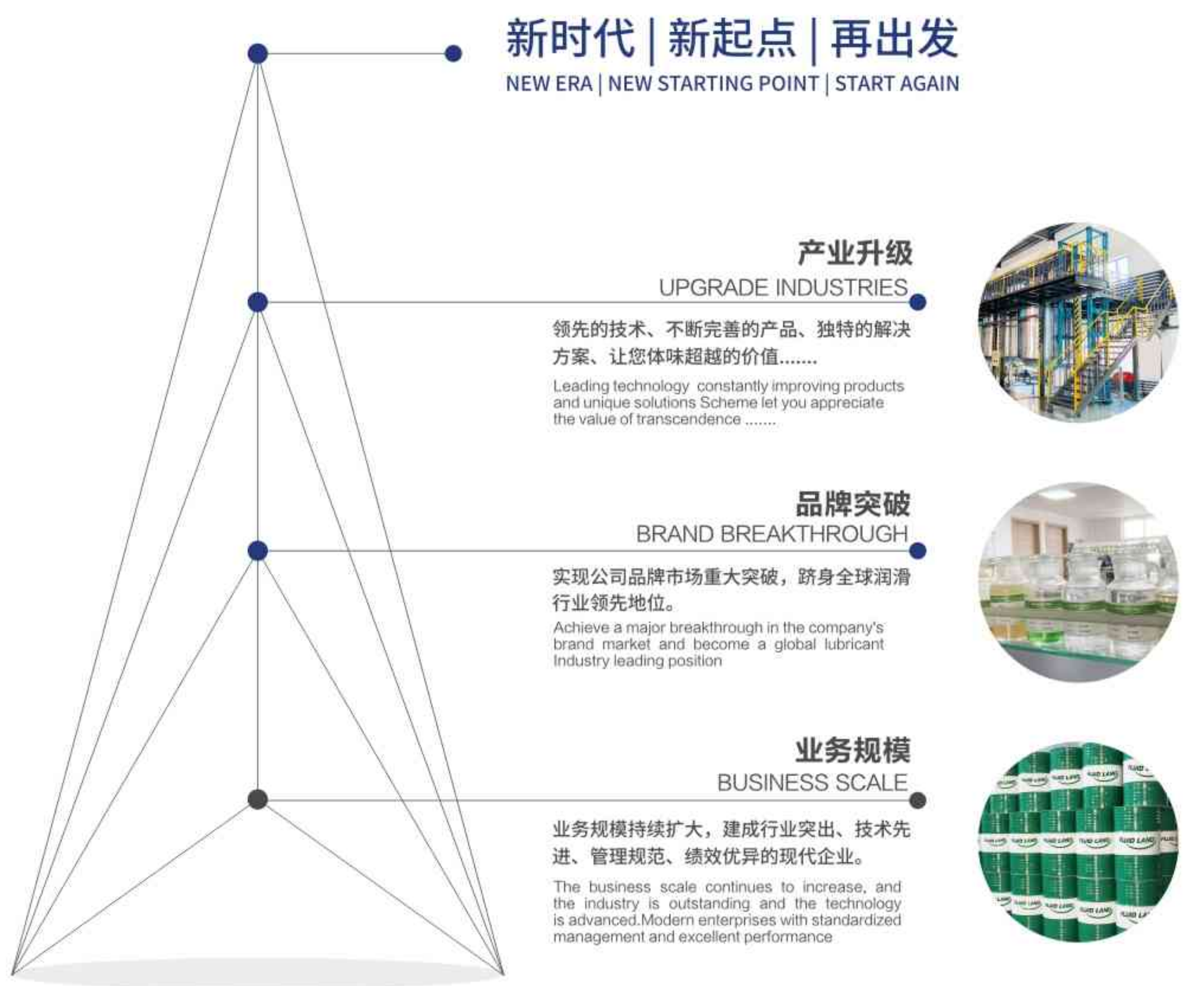


富地润滑科技愿景 FLUIDLAND VISION



发展规划

DEVELOPMENT PLANNING



研发中心

RESEARCH AND DEVELOPMENT CENTRE

富地根据市场变化，每年不定期投入巨资引进先进仪器设备、专业人才团队及与大学研究机构相互合作，不断改良产品和开发创新高效产品，以满足市场变化需求，让公司产品竞争保持在行业领先地位。

According to the changes of the market, Fluidland invests heavily in introducing advanced instruments and equipment, professional talent team and cooperating with university research institutions every year to continuously improve products and develop innovative and efficient products, so as to meet the changing needs of the market and keep the company's product competition in the leading position in the industry.



我们的主要研究方向为特种润滑材料。中国经济高速发展，对新材料的要求也日益加剧。机械工业，汽车，飞机，轮船在经济中占领有非常高的比例，而这些行业都要用的润滑材料，在中国每年需要超过几百亿的润滑材料，但是现在高端的润滑材料都从国外进口，国内生产的润滑油在数量和质量上也远远满足不了经济发展的需要，优质的产品可以每年为国家和企业节省非常可观的资金和外汇。我们具有自主的核心技术，技术水平具有世界领先水平。我们的创业项目就是要以新润滑材料产品为核心开发并产业化系列新润滑材料产品，并且为客户提供现场解决方案。

公司正处于快速成长期，我们的人员配置逐步趋于完善，我们的团队具有很强的创新能力、很高的生产力和市场开拓能力。我们有能力、有信心、有把握实现既定目标。我们的目标就是要解决中国润滑材料的关键问题，研发出世界一流的润滑材料并且国产化。

Our main research direction is special lubrication materials. With the rapid development of China's economy, the demand for new materials is increasingly intensified. Machinery industry, automobile, aircraft and ship occupy a very high proportion in the economy, and the lubricating materials used by these industries need more than tens of billions of lubricating materials every year in China. But now high-end lubricating materials are imported from abroad, and the quantity and quality of lubricating oil produced in China are far from meeting the needs of economic development. High-quality products can save the country and enterprises very considerable money and foreign exchange every year. We have independent core technology, technology level has the world's leading level. Our entrepreneurial project is to develop and industrialize a series of new lubricating material products with new lubricating material products as the core, and provide on-site solutions for customers.

The company is in a period of rapid growth, and our personnel allocation is gradually improving. Our team has strong innovation ability, high productivity and market development ability. We have the ability, confidence and certainty to achieve our set goals. Our goal is to solve the key problems of lubrication materials in China, develop world-class lubrication materials and domestic production.



富地科研团队荣获“火炬杯创新创业大赛新材料行业总决赛-成长企业组优胜奖”（最高奖）
“嘉兴市十大优秀科技人才”、“创新嘉兴·精英引领计划”、“海盐县领军人才团队-张启力创业团队”
“科技创业精英奖”等荣誉称号。

Fluidland Scientific research team won the "Torch Cup Innovation and Entrepreneurship Competition New Material Industry Finals - Growth Enterprise Group winning Award" (the highest award)
Ten Outstanding Scientific and Technological Talents in Jiaxing City, "Innovative Jiaxing. Elite Leading Plan",
"Leading Talents Team in Haiyan County - Zhang Qili Entrepreneurial Team"
"Science and Technology Entrepreneurship Elite Award" and other honorary titles.



2022.01

富地润滑科技股份有限公司
中国科学院宁波材料技术与工程研究所
联合组建的“特种润滑材料研发中心”在富地公司
成功举行签约暨揭牌仪式

Fluidland Lubricants Scientific Co., Ltd. and Ningbo Institute of Materials
Technology and Engineering, Chinese Academy of Sciences jointly established the
"Special Lubrication Materials Research and Development Center"
successfully held the signing and unveiling ceremony in Fortune Company.



科技是第一生产力 创新是第一动力

富地联合中国科学院宁波材料技术与工程研究所参与重大科技专项攻关，
利用合作平台的优势，实现科技成果应用转化的同时造福社会。

Science and technology is the primary productive force, innovation is the primary driving force,
Fluidland and Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences
participated in major scientific and technological projects.
Utilizing the advantages of the cooperation platform, we can realize the application and transformation
of scientific and technological achievements while benefiting the society.



联合研发成型航母 / 海洋钻井平台润滑材料，具有世界先进水平，
是全球主要航母和海洋钻井平台使用的润滑材料。

The jointly developed composite lubricating materials for aircraft carriers and
offshore drilling platforms are of the world's advanced level and are used by
major aircraft carriers and offshore drilling platforms around the world.

生产车间

PRODUCTION WORKSHOP



原材料 配方 生产工艺 生产设备 检测监控

拥有先进的设备、完善的技术团队，严格的品质管理，确保产品品质安全和稳定，富地高效、安全环保的产品，让客户放心使用、为企业创造更大价值。



为客户提供专业的润滑技术服务
是我们的核心竞争力
Provide professional lubricant technical services
It is our core competitiveness

INTELLIGENT TECHNOLOGY
WISDOM IN THE FUTURE
智能科技
智慧未来



We have advanced equipment, perfect technical team, strict quality management, From raw materials, formula, production process, production equipment, instrument testing and monitoring, to ensure product quality safety and stability, Fluidland efficient, safe and environmentally friendly products allow customers to use at ease and create greater value for enterprises.

荣誉资质

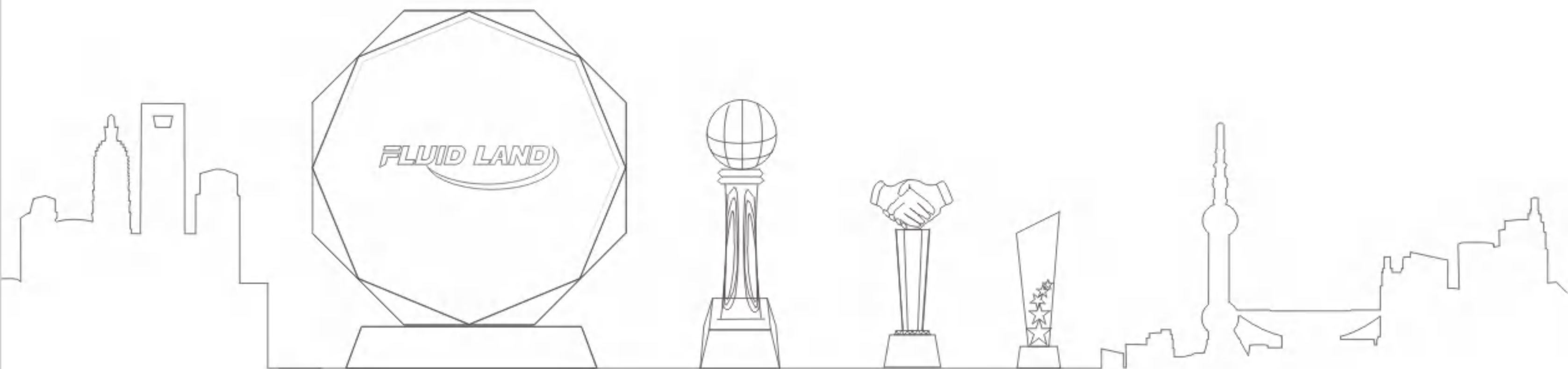
ENTERPRISE QUALIFICATION



荣誉时刻 HONOR MOMENT 见证成长 WITNESS THE GROWTH PROCESS

一直以来我们重视产品的创新，视产品质量为生命，
在我们不断努力下，获得了许多荣誉，
但我们不因沾沾自喜，而是作为登上更高目标的阶梯。

Strength witnesses honor, quality creates brilliance.
Over the years we attach importance to product innovation,
product quality as life.
Through our continuous efforts, we have won many honors,
But not for complacency, but as a ladder to a higher purpose.



- ISO9001:2015质量管理体系
ISO9001:2015 Quality Management System
- IATF16949:2016质量管理体系
IATF16949:2016 Quality Management System



- ISO14001:2015环境管理体系
ISO14001:2015 Environmental Management System
- ISO45001:2018职业健康安全管理体系
ISO45001:2018 Occupational health and safety Management System



- 发明专利证书
Patent Certificate for Invention



客户来访

CUSTOMER VISIT



客户的支持和信任是我们成长发展的基石，我们将竭尽所能，为客户提供优质的产品和售后服务！感恩每一位客户给与的信任！

Customer support and trust is the cornerstone of our growth and development, we will do our best, To provide customers with quality products and after-sales service!
Thank every customer for their trust!

战略合作

COOPERATIVE PARTNER



战略合作意义重大，要加强基础研究，开展应用研究，推动技术进步；
要强化资源共享，依托联合实验室，在重点领域和新兴行业开展项目合作。

Strategic cooperation is of great significance, and it is necessary to strengthen basic research.
Carry out applied research to promote technological progress;
To strengthen resource sharing, relying on joint laboratories,
Carry out project cooperation in key areas and emerging industries.

业务领域

BUSINESS AREA

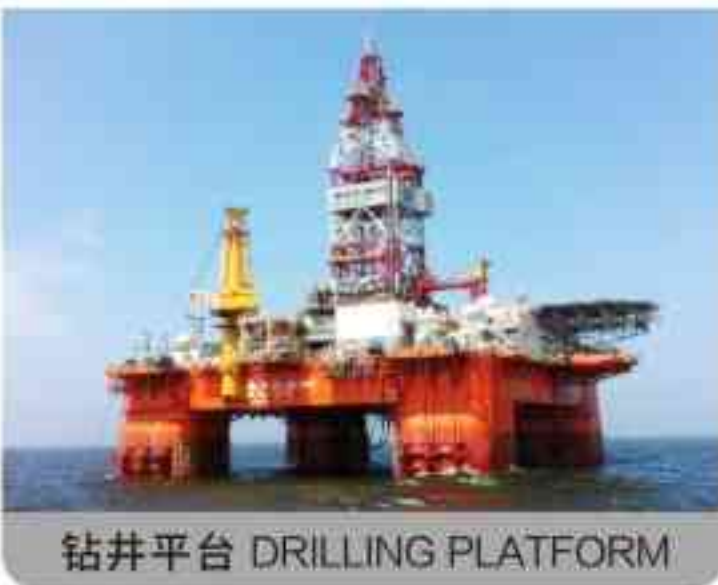
■ 多种行业领域产品全覆盖
FULL COVERAGE OF PRODUCTS IN VARIOUS INDUSTRIES



构建品牌创新体系 补齐中国企业短板

富地不断完善的产品体系，持续提升企业核心竞争力，适应瞬息万变的市场需求，巩固和提升公司在润滑行业领先地位，力争成为具有国际影响力的供应商。

Build a brand innovation system to complement the weaknesses of Chinese enterprises. Fluidland constantly improve the product system, continue to enhance the core competitiveness of the enterprise, Adapt to the ever-changing market demand, consolidate and improve the company's leading position in the lubrication industry, Strive to become a supplier with international influence.



金属切削介质

METAL CUTTING FLUIDS

切削油 CUTTING OIL

产品名称 Product	粘度等级 (mm²/s) (40℃) Viscosity (mm²/s) (40℃)	闪点 (开口 ℃) Flash Point (COC ℃)	适用材质 Applicable Materials	应用说明 Application Description
多用途切削油 Flulacut G 系列 MULTIPURPOSE CUTTING OIL FLULACUT G SERIES	5、10、16、 22、32	≥ 130	铸铁，碳钢， 有色金属 CAST IRON, CARBON STEEL, NON-FERROUS METAL	非活性，低油雾。极好的冷却和润湿性能，延长刀具使用寿命。 适用于切削，钻孔，齿轮加工和磨削。 NON ACTIVE, LOW MIST. THEY HAVE EXCELLENT COOLNG AND WETTING PROPERTIES, EXTEND TOOL LIFE. THEY CAN BE USED FOR CUTTING, DRILLING, GEAR PROCESSING AND GRINDING.
高极压切削油 Flulacut HEP 系列 HIGH EXTREME PRESURE CUTTING OIL FLULACUT HEP SERIES	5、10、16、 28、32	≥ 160	铸铁，碳钢， 不锈钢，合金钢 CAST IRON, CARBON STEEL, STAINLESS STEEL, ALLOY STEEL	活性，低油雾。加工表面光洁，刀具使用寿命长。适用于黑色 金属深孔钻，枪钻，攻丝，剃齿，拉削等重负载加工。 ACTIVE, LOW MIST. SMOTHNESS FOR MACHING SURFACE, LONG TOOL LIFE. THEY ARE USED FOR STEEL HEAVY DUTY APPLICATION; SUCH AS DEEP HOLE DRILLING, GUNDRILL, TAPPING, GEAR SHAVING, BROACHING, ETC.
高极压切削油 Flulacut SEP 系列 HIGH EXTREME PRESSURE CUTTING OIL FLULACUT SEP SERIES	5、15、20、 26、32、42	≥ 160	铸铁，碳钢， 不锈钢，合金钢 CAST IRON, CARBON STEEL, STAINLESS STEEL, ALLOY STEEL	活性，低油雾。极佳的抗磨，极压和防锈性能。适用于高硬度 材料的高难度切削工艺。 ACTIVE, LOW MIST. EXCELLENT ANTI-WEAR, EXTREME PRESSURE AND ANTI-RUST PROPERTIES. THEY CAN BE USED FOR HIGH HARDNESS MATERIAL CUTTING WITH SUPERIOR DIFFICULTY PROCESS.
高速磨削油 Flulacut HSG 系列 HIGH SPEED GRINDING OIL FLULACUT HSG SERIES	5、15、20、 26、32	≥ 150	钢，有色金属 STEEL, NON-FERROUS METAL	低油雾。适用于高速磨削。 LOW MIST. FOR HIGH SPEED GRINDING.

金属切削介质

METAL CUTTING FLUIDS

切削液 CUTTING FLUID

产品名称 Product	Ph(5%)	原液折光 Original liquid Refractive index	适用材质 Applicable Materials	应用说明 Application Description
高极压乳化型切削液 Flulacool 7360D HIGH EP EMULSION CUTTING FLUID FLULACOOOL 7360D	9.2	75	铝合金、钢 ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	生物稳定型重负荷切削液、极好的冷却、润滑性能、抗硬水。 BIO-STABLE HEAVY LOAD CUTTING FLUID. IT CAN PROVIDE EXCELLENT COOLING、LUBRICATING PROPERTIES、RESISTANT TO HARD WATER.
高极压乳化型切削液 Flulacool 7360E HIGH EP EMULSION CUTTING FLUID FLULACOOOL 7360E	9.2	75	铝合金、钢 ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	生物稳定型重负荷切削液、性价比高。 BIO-STABLE HEAVY LOAD CUTTING FLUID 、HIGH COST PERFORMANCE.
高极压乳化型切削液 Flulacool 7360H HIGH EP EMULSION CUTTING FLUID FLULACOOOL 7360H	9.6	75	不锈钢 STAINLESS STEEL	生物稳定型重负荷切削液。能够提供极好的冷却、润滑性能。 BIO-STABLE HEAVY LOAD CUTTING FLUID. IT CAN PROVIDE EXCELLENT COOLING、LUBRICATING PROPERTIES.

金属切削介质

METAL CUTTING FLUIDS

切削液 CUTTING FLUID

产品名称 Product	Ph(5%)	原液折光 Original liquid Refractive index	适用材质 Applicable Materials	应用说明 Application Description
高极压乳化型切削液 Flulacool 7350 HIGH EP EMULSION CUTTING FLUID FLULACOOOL 7350	9.4	75	铸铁、钢、铝合金 CAST IRON,CARBON STEEL, ALLOYED STEEL,CAST ALUMINUM, NON- FEEROUS METAL	重负荷切削液，适用于铝合金的切削、磨削、攻丝、深钻孔等。 HEAVY LOAD CUTTING FLUID. EXCELLENT MACHINING PROPERTIES. IT IS SPECIALLY GOOD FLUID FOR ALUMIINUM ALLOY WITH CUTTING、GRINDING、TAPPIN、DEEP HOLE DRILLING.
半合成切削液 Flulacool 7250D EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7250D	9.2	57	钢、铝合金 ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	中重负荷切削液、环保、生物稳定型半合成切削液，抗硬水。 MEDIUM TO HEAVY LOAD CUTTING FLUID. ENVIROMENTAL FRIENDLY、BIO-STABLE SEMI-SYNTHETIC CUTTING FLU ID, RESISTANT TO HARD WATER.
半合成切削液 Flulacool 7250E EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7250E	9.2	55	钢、铝合金 ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	中重负荷切削液、环保、生物稳定型半合成切削液，性价比高。 MEDIUM TO HEAVY LOAD CUTTING FLUID. ENVIROMENTAL FRIENDLY、BIO-STABLE SEMI-SYNTHETIC CUTTING FLU ID, HIGH COST-PERFORMANCE RATIO.
半合成切削液 Flulacool 7250GF EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7250GF	9.6	56	铸铁、钢、铝合金 CAST IRON,CARBON STEEL, ALUMINUM ALLOY, NON- FEEROUS METAL	中重负荷切削液、环保、生物稳定型半合成切削液，特别适合 加工铸铁，防锈性能好。 ENVIROMENTAL FRIENDLY、BIO-STABLE SEMI-SYNTHETIC CUTTING FLU ID, ESPECIALLY SUITABLE FOR PROCESSING CAST IRON, WITH GOOD RUST RESISTANCE.
半合成切削液 Flulacool 7250CU EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7250CU	9.2	55	铜、钢、铝合金 COPPER, ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	中重负荷切削液、环保、生物稳定型半合成切削液，特别适合 加工铜。 ENVIROMENTAL FRIENDLY、BIO-STABLE SEMI-SYNTHETIC CUTTING FLU ID, PARTICULARLY SUITABLE FOR PROCESSING COPPER.
半合成切削液 Flulacool7250MG EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7250MG	9.2	60	镁合金、镁铝合金 MAGNESIUM ALLOY, MAGNESIUM ALUMINUM ALLOY	可有效缓解由于加工时镁离子的大量进入造成油水分离现象的 产生减少氢气生成。 IT CAN EFFECTIVELY ALLEVIATE THE PHENOMENON OF OIL WATER SEPARATION CAUSED BY THE LARGE AMOUNT OF MAGNESIUM IONS ENTERING DURING PROCESSING, AND REDUCE THE GENERATION OF HYDROGEN.
半合成切削液 Flulacool 7250 EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7250	9.5	55	铸铁、钢、铝合金 ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	中重负荷切削液、环保、生物稳定型半合成切削液，不含氯、 不含硫，使用寿命长。 MEDIUM TO HEAVY LOAD CUTTING FLUID. ENVIROMENTAL FRIENDLY、BIO-STABLE SEMI-SYNTHETIC CUTTING FLU ID, LONG SERVICE LIFE. NOT CONTAIN SULFUR AND CHLO RINE.
半合成切削液 Flulacool 7210GF EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7210GF	9.7	45	铸铁、钢、铝合金 CAST IRON,CARBON STEEL, ALUMINUM ALLOY, NON- FEEROUS METAL	铸铁、钢、铝合金适用于一般加工、防锈性能好。 SUITABLE FOR GENERAL PROCESSING, WITH GOOD RUST PREVENTION PERFORMANCE.
半合成切削液 Flulacool 7210A EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7210A	9.6	40	钢、铝合金 ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	适用于一般加工、性价比高。 SUITABLE FOR GENERAL PROCESSING, WITH HIGH COST PERFORMANCE.

金属切削介质

METAL CUTTING FLUIDS

切削液 CUTTING FLUID

产品名称 Product	Ph(5%)	原液折光 Original liquid Refractive Index	适用材质 Applicable Materials	应用说明 Application Description
半合成切削液 Flulacool 7210T EP SEMI-SYNTHETIC CUTTING FLUID FLULACOOOL 7210T	9.5	40	黑色金属 FERROUS METAL	适用于一般加工、性价比高。 SUITABLE FOR GENERAL PROCESSING, WITH HIGH COST PERFORMANCE.
全合成切削液 Flulacool 7140 SYNTHETIC CUTTING FLUID FLULACOOOL 7140	9.5	48	铸铁、钢 IRON AND STEEL	适用于多种加工方式，防锈性能好。 SUITABLE FOR VARIOUS PROCESSING METHODS, WITH GOOD RUST PREVENTION PERFORMANCE.
全合成切削液 Flulacool 7130E SYNTHETIC CUTTING FLUID FLULACOOOL 7130E	9.6	37	硬质合金 HARD METAL	可以有效的抑制硬质合金中的钴的渗漏。 IT CAN EFFECTIVELY INHIBIT THE LEAKAGE OF COBALT IN CEMENTED CARBIDE.
全合成切削液 Flulacool 7130E30 SYNTHETIC CUTTING FLUID FLULACOOOL 7130E30	9.6	35	硬质合金 HARD METAL	可以有效的抑制硬质合金中的钴的渗漏。 IT CAN EFFECTIVELY INHIBIT THE LEAKAGE OF COBALT IN CEMENTED CARBIDE.
全合成切削液 Flulacool 7130GF SYNTHETIC CUTTING FLUID FLULACOOOL 7130GF	9.8	34	铸铁、钢 IRON AND STEEL	中负荷切削液，适用于一般加工、防锈性能好。 MEDIUM LOAD CUTTING FLUID, SUITABLE FOR GENERAL MACHINING, WITH GOOD RUST RESISTANCE.
全合成切削液 Flulacool 7110 SYNTHETIC CUTTING FLUID FLULACOOOL 7110	9.6	30	铸铁、钢 IRON AND STEEL	中负荷削液，适用于轧辊的磨削。 MEDIUM LOAD CUTTING FLUID. IT IS SPECIALLY GOOD FLUID FOR MILLROLIER GRINDING PROCESSING.
半合成切削液复合剂 Flulacool 7250EC EP SEMI-SYNTHETIC CUTTING FLUID COMPOSITE AGENT FLULACOOOL 7250EC	9.3	70	钢、铝合金 ALUMINUM ALLOY, STAINLESS STEEL, HIGH ALLOYED STEEL	通用型、调和方便，只需加水 and 消泡剂。 UNIVERSAL, EASY TO MIX, JUST ADD WATER AND DEFOAMER.
全合成切削液复合剂 Flulacool 7130SGRC EP SEMI-SYNTHETIC CUTTING FLUID COMPOSITE AGENT FLULACOOOL 7130SGRC	9.7	56	铸铁、钢 IRON AND STEEL	调和方便，只需加水 and 消泡剂。 EASY TO MIX, JUST ADD WATER AND DEFOAMER.
金刚线切削液 Flulacool 7101 DIMOND WIRE CUTTING FLUID FLULACOOOL 7101	7.6	30	硅片，石英，宝石 SILICON WAFER, QUARTZ, PRECIOUS STONE	环保型金刚线切割液。良好的润滑作用，可有效提高硅片表面 光洁度；优异的冷却性能，能够瞬间带走切割产生的热量。 ENVIROMENTAL FRIENDLY DIMOND WIRE CUTTING FLUID. IT CAN PROVIDE GOOD LUBRICATING PROPERTIES, IMPROVE SILICON WAFER SURFACE QUALITY EFFICIENTLY; EXCELLENT COOLING PROPERTIES, IT CAN MOMENTILY TAKE AWAY HEAT FROM CUTTING PROCESS.
金刚线切削液 Flulacool 7103 DIMOND WIRE CUTTING FLUID FLULACOOOL 7103	8.0	33	硅片，石英，宝石 SILICON WAFER, QUARTZ, PRECIOUS STONE	环保型金刚线切割液。优异的润滑作用，可有效提高硅片表面 光洁度；优异的冷却性能，能够瞬间带走切割产生的热量。 ENVIROMENTAL FRIENDLY DIMOND WIRE CUTTING FLUID. IT CAN PROVIDE EXCELLENT LUBRICATING PROPERTIES, IMPROVE SILICON WAFER SURFACE QUALITY EFFICIENTLY; EXCELLENT COOLING PROPERTISE, IT CAN MOMENTILY TAKE AWAY HEAT FROM CUTTING PROCESS.

热处理淬火介质

HEAT TREATMENT QUENCHANTS

淬火油 QUENCHANT OIL

产品名称 Product	粘度等级 (mm²/s) (40℃) Viscosity (mm²/s) (40℃)	使用温度 (℃) Operating Temperature(℃)	最大冷速 Maximum Cooling Speed	应用说明 Application Description
超速淬火油 Flulaquench F 系列 FASTEST QUENCHANT FLULAQUENCH F SERIES	12、20、32	40-80	100-120	热氧化安定性好，油品能长期保持稳定的冷却性能，使用寿命长。油耗少，零件易清洗。适用于表面硬度要求高的低淬透性的各种合金钢、碳素钢或厚大截面尺寸的工件淬火。 FASTEST COOLING SPEED, GOOD THERMAL OXIDATION STABILITY, LONG TERM STABLE COOLING PROPERTIES, LONG SERVICE LIFE. MUCH LESS DRAG-OUT, THE PART IS EASILY CLEANNED. IT IS USED FOR QUENCHING LOW HARDENABILITY ALLOY STEEL、CARBON STEEL THAT HAS HIGH SURFACE HARDNESS REQUIREMENT. IT ALSO USED FOR QUENCHING FOR PARTS THAT HAVE THICK AND LARGE CROSS SECTION SIZE.
快速淬火油 Flulaquench G 系列 FAST QUENCHANT FLULAQUENCH G SERIES	18、25、30、45	40-80	90-100	热氧化安定性好，油品能长期保持稳定的冷却性能，使用寿命长。油耗少，零件易清洗。适用于各种中低淬透性工件或较大截面尺寸的工件淬火。 FAST COOLING SPEED,GOOD THERMAL OXIDATION STABILITY, LONG TERM STABLE COOLING PROPERTIES, LONG SERVICE LIFE. MUCH LESS DRAG-OUT, THE PART IS EASILY CLEANNED. IT IS USED FOR QUENCHING PARTS THAT HAVE LOW TO MEDIUM HARDENABILITY. IT IS ALSO USED FOR QUENCHING FOR PARTS THAT HAVE RELATIVELY LARGE CROSS SECTION SIZE.
光亮淬火油 Flulaquench B 系列 BRIGHT QUENCHANT FLULAQUENCH B SERIES	20、25、30	40-80	90-100	热氧化安定性好，油品能长期保持稳定的冷却性能，使用寿命长。适用于各种中低淬透性工件或较大截面尺寸的工件淬火，能够保持工件表面的光亮性，易清洗。 GOOD THERMAL OXIDATION STABILITY, LONG TERM STABLE COOLING PROPERTIES, LONG SERVICE LIFE. MUCH LESS DRAG-OUT, THE PART IS EASILY CLEANNED. IT IS USED FOR QUENCHING PARTS THAT HAVE LOW TO MEDIUM HARDENABILITY. IT IS ALSO USED FOR QUENCHING FOR PARTS THAT HAVE RELATIVELY LARGE CROSS SECTION SIZE. IT WILL KEEP PART’ S SURFACE BRIGHTNESS AFTER QUENCHING.
常速淬火油 Flulaquench N 系列 NORMAL QUENCHANT FLULAQUENCH N SERIES	16、20、30	40-80	60	广泛应用于各种中、高淬透性工具钢、半成品工件以及合金钢锻件的淬火处理。 NORMAL COOLING SPEED, IT IS WIDELY USED FOR QUENCHING MEDIUM TO HIGH HARDENABILITY TOOL STEEL、SEMI-FINISHED WORKPIECE AND ALLOY STEEL FORGING.
真空淬火油 Flulaquench V 系列 VACUUM QUENCHANT FLULAQUENCH V SERIES	20、30、50	40-80	60-90	馏程短，抗气化能力强，饱和蒸汽压低，热氧化安定性好，冷却性能稳定，油品能长期保持稳定，使用寿命长。适于真空状态下各种钢的热处理。 SHORT DISTILLING RANGE, STRONG ABILITY RESIST TO GASIFICATION, LOW SATURATED VAPOR PRESSURE, LONG TERM STABLE COOLING PROPERTIES, LONG SERVICE LIFE. MUCH LESS DRAG-OUT, THE PART IS EASILY CLEANNED. IT IS USED FOR QUENCHING ALL KINDS STEEL AT VACUUM STATUS.
等温分级淬火油 Flulaquench M 系列 MAR-TEMPERING QUENCHANT FLULAQUENCH M SERIES	50、85、100、110、150	100-160	70-90	具有冷速适宜，冷却性能稳定，变形小，可使工件获得足够的硬度和硬化层深度。热稳定性和抗氧化性能佳，油品能长期保持稳定，使用寿命长。油耗少，零件易清洗。 SUITABLE COOLING SPEED, GOOD THERMAL OXIDATION STABILITY, LOW DISTORTION, IT WILL MAKE PART TO HAVE ENOUGH HARDNESS AND DEPTH OF HARDNING LAYER, LONG TERM STABLE COOLING PROPERTIES, LONG SERVICE LIFE. MUCH LESS DRAG-OUT, THE PART IS EASILY CLEANNED.

热处理淬火介质

HEAT TREATMENT QUENCHANTS

淬火油 QUENCHANT OIL

产品名称	粘度等级 (mm²/s) (40℃)	使用温度 (℃)	最大冷速	应用说明
Product	Viscosity (mm²/s) (40℃)	Operating Temperature(℃)	Maximum Cooling Speed	Application Description
回火油 Flulaquench T 系列	35、50、65、 (100℃)	120–200		具有良好的热氧化安定性，热稳定性和传热性能，使用寿命长。回火后工件表面光洁，易于清洗。适用于轴承套圈、工模具、合金渗碳工件以及各种碳钢工件的热处理低温回火工艺。
TEMPERING QUENCHANT FLULAQUENCH T SERIES				GOOD THERMAL OXIDATION STABILITY, THERMAL STABILITY AND HEAT TRANSFER PROPERTIES, LONG SERVICE LIFE. BRIGHTNESS SURFACE AFTER TERMPERING, THE PART IS EASILY CLEANNED. IT IS USED FOR TEMPERING BERAING RING, TOOL AND MOULD, ALLOY CARBURIZED PART AND CARNON STEEL AT LOW TERMPERTURE TEMPERING PROCESS.

热处理淬火介质

HEAT TREATMENT QUENCHANTS

淬火液 AQUA QUENCHANTS

产品名称	粘度等级 (mm²/s) (40℃)	使用温度 (℃)	PH(5%)	应用说明
Product	Viscosity (mm²/s) (40℃)	Operating Temperature(℃)		Application Description
水基淬火液 Flulaquench AP 系列	80、310、350、 680	30–65	9.4	冷却性能介于水和油之间，能有效解决工件水淬开裂、油淬不硬的难题。广泛应用于表面、铝件、渗碳、整体调质、大厚尺寸中等程度淬透性等钢种的淬火。在浸淬中主要用于调质钢的淬火以及感应淬火，火焰淬火的热处理过程。用于铝件淬火，可达到不变形或变形极小的效果。
AQUA QUENCHANT FLULAQUENCH AP SERIES				THE COOLING PROPERTIES ARE BETWEEN WATER AND OIL, THEY CAN RESOLVE CRACK BY WATER QUENCHANT AND INSUFFICIENT HARDNESS BY OIL QUENCHANT. THEY CAN BE WIDELY USED QUENCHANTS FOR SURFACE, ALUMINUM, CARBURIZING, QUENCHING AND TEMPERING, MEDIUM HARDENABILITY STEEL WITH LARGE THICK SIZE. THEY CAN BE USED FOR QUENCHING AND TMPERING STEEL AND SURFACE AS WELL AS FLAME QUENCHING. THEY HAVE NO OR LITTLE DISTORTION FOR ALUMINUM QUENCHING.
水基淬火液 Flulaquench AV 系列	550、700	30–80	9.3	冷却性能类似油。特别适用于马氏体不锈钢，工具钢，模具钢以及大件的整体淬火。
AQUA QUENCHANT FLULAQUENCH AV SERIES				THE COOLING PROPERTIES ARE SIMILAR AS OIL. THEY ARE SPECIALLY GOOD MAR-TERMPERING QUENCHANTS FOR STAINLESS STEEL, TOOL STEEL, DIE STEEL AND BIG PIECE.
水基淬火液 Flulaquench AA 系列	300、400、550	30–80	9.1	冷却性能类似油。特别适用于高碳钢丝的等温索氏体淬火。
AQUA QUENCHANT FLULAQUENCH AA SERIES				THE COOLING PROPERTIES ARE SIMILAR AS OIL. THEY ARE SPECIALLY GOOD SORBITE QUENCHANTS FOR HIGH CARBON STEEL WIRE.
水基淬火液 Flulaquench AE 系列	70、120	30–55	9.2	冷却性能类似油。特别适用于易变形和开裂工件的淬火。
AQUA QUENCHANT FLULAQUENCH AE SERIES				THE COOLING PROPERTIES ARE SIMILAR AS OIL. THEY ARE SPECIALLY GOOD QUENCHANTS FOR DISTIRTION AND CRACKING PIECE.

热处理淬火介质

HEAT TREATMENT QUENCHANTS

淬火液 AQUA QUENCHANTS

产品名称	粘度等级 (mm²/s) (40℃)	使用温度 (℃)	PH(5%)	应用说明
Product	Viscosity (mm²/s) (40℃)	Operating Temperature(℃)		Application Description
水基淬火液 Flulaquench AS 系列		30–80	9.2	冷却速度比水快的淬火液。适用于工具钢的感应淬火和大尺寸且结构简单的工件淬火。特别适用于表面硬度要求高的工件的淬火。
AQUA QUENCHANT FLULAQUENCH AS SERIES				THE COOLING SPEED IS MORE FAST THAN WATER. THEY CAN BE USED FOR TOOL STEEL INDUCTIVE QUENCHING, AND SIMPLE SHAPE WITH LARE SIZE STEEL QUENCHING. THEY CAN BE SPECIALLY GOOD QUENCHING FOR HIGH SURFACE HARDNESS.

金属成型介质

METAL FORMING FLUIDS

成型油 FORMING OIL

产品名称	粘度等级 (mm²/s) (40℃)	闪点 (开口 ℃)	适用材质	应用说明
Product	Viscosity (mm²/s) (40℃)	Flash Point (COC ℃)	Applicable Materials	Application Description
冲压油 Flulaform 系列	1.6、3.8、7.8	≥60	铝材，铝合金， 有色金属	冲压后残留极少，可大幅提高加工精度、表面光洁度。主要用于铝材的冲裁成型加工。
STAMPING OIL FLULAFORM SERIES			ALUMINUM, ALUMINUM ALLOY, NON-FERROUS METAL	LITTLE RESIDUE AFTER STAMPING, SIGNIFICANTLY INCREASE MACHINING ACCURACY、SURFACE SOOMTHNESS. MAINLY USED FOR ALUMNIUM MATERIALS STAMPING.
极压冲压油 Flulaform EP 系列	15、40、100、 400	≥180	钢，有色金属	优异的润滑极压性能，良好的乳化性能。用于各种钢板和有色金属板的冲压冲裁。
EP STAMPING OIL FLULAFORM EP SERIES			STEEL, NON- FERROUSE METAL	EXCELLENT EP LUBRICATING PROPERTIES, GOOD EMULSION PROPERTIES. USED FOR METAL STAMPING.
极压拉伸油 Flulaform SEP 系列	15、40、100、 400	≥180	钢，不锈钢	优异的润滑极压性能。用于各种钢板的拉伸。
EP STRETCHING OIL FLULAFORM SEP SERIES			STEEL, STAINLESS STEEL	EXCELLENT EXTREME PRESSURE LUBRICATING PROPERTIES. USED FOR STEEL PLATE STRETCHING.
拉拔油 Fluladraw 系列	50、150、300、 450	≥160	钢，不锈钢	优异的润滑极压性能。用于各种钢的拉拔加工。
DRAWING OIL FLULADRAW SERIES			STEEL, STAINLESS STEEL	EXCELLENT EXTREME PRESSURE LUBRICATING PROPERTIES. USED FOR STEEL DRAWING.
铝拉丝油 Fluladraw AL 系列	30、150	≥180	铝材	优异的润滑性能、极压性能。适合于铝线的控制，线材表面光滑。
AL WIRE DRAWING OIL FLULADRAW AL SERIES			ALUMINUM	EXCELLENT EP LUBRICATING PROPERTIES. USED FOR ALUMINUM WIRE DRAWING, GOOD SURFACE SMOOTHNESS.
扩径油 Flulaform EO 系列	300、420	≥160	钢，不锈钢	优良的润滑性，易水洗。可用于各种钢管和不锈钢管扩径加工或冷轧加工。
PIPE EXPANDING OIL FLULAFORM EO SERIES			STEEL, STAINLESS STEEL	EXCELLENT LUBRICATING PROPERTIES, EASILY RINSING. USED FOR STEEL PIPE EXPANDING AND COLD MACHINING.

金属成型介质
METAL FORMING FLUIDS
成型液 FORMING FLUID

产品名称 Product	Ph(5%)	适用材质 Applicable Materials	应用说明 Application Description
极压乳化型成型液 Fluladraw EP 6320 EP EMULSION FORMING FLUID FLULADRAW EP 6320	8.3	钢，不锈钢, 有色金属 STEEL, STAINLESS STEEL, NON-FERROUSE METAL	良好的极压性能，是一种重负荷、多用途的水溶性冲压拉伸液。主要用于钢管的扩径、也可用于一般金属材料的冲压成型加工。 GOOD EP PROPERTIES, IT IS A HEAVY DUTY、MULTI-PURPOSE WATER SOLUBLE STAMPING AND DRAWING FLUID. IT IS MAINLY USED FOR STEEL PIPE EXPANDING、AND ALSO USED FOR GENERAL METAL MATERIALS STAMPING AND FORMING.
高压乳化型成型液 Fluladraw EP 6330 HIGH EP EMULSION FORMING FLUID FLULADRAW EP 6330	9.4	钢，不锈钢 STEEL, STAINLESS STEEL	是一种重负荷、多用途的水溶性冲压拉伸液，满足绝大多数金属成型工艺的要求。 IT IS A HEAVY DUTY、MULTI-PURPOSE WATER SOLUBLE STAMPING AND DRAWING FLUID, MEET THE FORMING MACHINING REQUIREMENT FOR MOST METAL MATERIALS.
极压全合成型成型液 Fluladraw EP 6110 EP SYTHETIC FORMING FLUID FLULADRAW EP 6110	9.2	铸铁，钢，铸铝， 有色金属 CAST IRON, STEEL, CAST ALUMINUM, NON-FERROUSE METAL	优良的极压润滑性能。非常适合电池外壳、汽车排气管和座椅零件、园林机械、烧烤架、管材弯曲等要求高的零件的拉深与成型。 GOOD EXTREME PRESSURE PROPERTIES. IT IS VERY SPECIALLY USED FOR DRAWING AND FORMING APPLICATION FOR BATTERY JAR、AUTO EXHUST SHAFT AND SEAT PARTS、GARDEN MACHINE、GRILL、PIPE BENDING、ETC.
高级全合成铜拉丝液 Fluladraw CU 6510 SENIORTOTAL SYNTHESIS COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6510	9	铜、有色金属 COPPER, NON-FERROUSE METAL	优良的冷却、润湿和润滑性能。适用于铜和钢的拉丝，特别适用于硅片切割钢丝和轮胎钢帘线的拉丝。 EXCELLENT COOLING, WETTING, AND LUBRICATING PROPERTIES. SUITABLE FOR DRAWING COPPER AND STEEL, ESPECIALLY FOR CUTTING STEEL WIRES ON SILICON WAFERS AND FOR DRAWING TIRE STEEL CORDS.
高级半合成铜拉丝液 Fluladraw CU 6520 SENIOR SEMISYNTHESIS COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6520	8.7	铜、有色金属 COPPER, NON-FERROUSE METAL	优良的冷却、润湿和润滑性能；快速的铜粉沉降速度，拉丝油使用寿命长。主要用于铜丝的大拉和中拉，以及型材，管材的拉拔。 GOOD COOLING、WETTING AND LUBRICATTING PROPERTIES; FAST COPPER POWDER PRECIPITATE SPEED, LONG LIFE. MAINLY USED FOR COPPER WIRE COARSE AND MEDIUM DRAWING, AS WEELL AS EXTRUDE PROFILES AND PIPE MATERIALS DRAWING.
高级半合成铜拉丝液 Fluladraw CU 6520S SENIOR SEMISYNTHESIS COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6520S	8.7	铜、钢 STEEL, COPPER	优良的冷却、润湿和润滑性能。适用于铜和钢的拉丝。 GOOD COOLING、WETTING AND LUBRICATTING PROPERTIES; USED FOR STEEL AND COPPER WIRE DRAWING.
高级乳化铜拉丝液 Fluladraw CU 6530 SENIOR COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6530	8.5	铜、有色金属 COPPER, NON-FERROUSE METAL	优异的润滑性能，特别适于拉制粗线及中线。 EXCELLENT LUBRICATION PERFORMANCE, ESPECIALLY SUITABLE FOR DRAWING THICK WIRE AND CENTER LINE.

金属成型介质
METAL FORMING FLUIDS
成型液 FORMING FLUID

产品名称 Product	Ph(5%)	适用材质 Applicable Materials	应用说明 Application Description
高级全合成铜拉丝液 Fluladraw CU 6510 SENIORTOTAL SYNTHESIS COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6510	9	铜、有色金属 COPPER, NON-FERROUSE METAL	优良的冷却、润湿和润滑性能。适用于铜和钢的拉丝，特别适用于硅片切割钢丝和轮胎钢帘线的拉丝。 EXCELLENT COOLING, WETTING, AND LUBRICATING PROPERTIES. SUITABLE FOR DRAWING COPPER AND STEEL, ESPECIALLY FOR CUTTING STEEL WIRES ON SILICON WAFERS AND FOR DRAWING TIRE STEEL CORDS.
高级半合成铜拉丝液 Fluladraw CU 6520 SENIOR SEMISYNTHESIS COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6520	8.7	铜、有色金属 COPPER, NON-FERROUSE METAL	优良的冷却、润湿和润滑性能；快速的铜粉沉降速度，拉丝油使用寿命长。主要用于铜丝的大拉和中拉，以及型材，管材的拉拔。 GOOD COOLING、WETTING AND LUBRICATTING PROPERTIES; FAST COPPER POWDER PRECIPITATE SPEED, LONG LIFE. MAINLY USED FOR COPPER WIRE COARSE AND MEDIUM DRAWING, AS WEELL AS EXTRUDE PROFILES AND PIPE MATERIALS DRAWING.
高级半合成铜拉丝液 Fluladraw CU 6520S SENIOR SEMISYNTHESIS COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6520S	8.7	铜、钢 STEEL, COPPER	优良的冷却、润湿和润滑性能。适用于铜和钢的拉丝。 GOOD COOLING、WETTING AND LUBRICATTING PROPERTIES; USED FOR STEEL AND COPPER WIRE DRAWING.
高级乳化铜拉丝液 Fluladraw CU 6530 SENIOR COPPER WIRE DRAWING EMULSION FLUID FLULADRAW CU 6530	8.5	铜、有色金属 COPPER, NON-FERROUSE METAL	优异的润滑性能，特别适于拉制粗线及中线。 EXCELLENT LUBRICATION PERFORMANCE, ESPECIALLY SUITABLE FOR DRAWING THICK WIRE AND CENTER LINE.

轧制介质

ROLLING FLUIDS

轧制油 ROLLING OIL

产品名称 Product	皂化值 (mgkoh/g) Sap Value (mgkoh/g)	应用说明 Application Description
钢板热轧制油 Flularoll S 8110 STEEL PLATE HOT ROLLING OIL FLULAROLL S 8110	110	适用于钢板的热轧制。润滑性能优良，表面质量好。 IT IS USED FOR STEEL HOT ROLLING. GOOD LUBRICATION PROPERTIES, LOW ROLLING FORCE, GOOD SURFACE QUALITY. SUITABLE FOR WIDE PLATE ROLLING.
不锈钢冷轧制油 Flularoll S 8210 STAINLESS STEEL COLD ROLLING OIL FLULAROLL S 8210		适用于不锈钢板冷轧，润滑性能优良，表面质量好。 IT IS USED FOR STEEL, STAINLESS STEEL, SILICON STEEL COLD ROLLING. GOOD LUBRICATION PROPERTIES, GOOD SURFACE QUALITY.
不锈钢冷轧制油 Flularoll S 8410 STAINLESS STEEL COLD ROLLING OIL FLULAROLL S 8410	12	适用于钢板、不锈钢、硅钢的冷轧制。润滑性能优良，表面质量好。 IT IS USED FOR STEEL, STAINLESS STEEL, SILICON STEEL COLD ROLLING. GOOD LUBRICATION PROPERTIES, GOOD SURFACE QUALITY.
铜板冷精轧制油 Flularoll S 8931 COPPER PLATE COLD ROLLING OIL FLULAROLL CU 8931	5	适用于铜板的冷轧，润滑性能优良，轧制后铜板表面光亮。 IT IS USED FOR COPPER THIN PLATE COLD ROLLING. GOOG LUBRICATING PROPERTIES, THE COPPER PLATE HAS BRIGHT SURFACE AFTER ROLLING.
铜板冷精轧制油 Flularoll S 8951 COPPER PLATE COLD ROLLING OIL FLULAROLL CU 8951	8	适用于铜板的冷轧，润滑性能优良，轧制后铜板表面光亮。 IT IS USED FOR COPPER THIN PLATE COLD ROLLING. GOOG LUBRICATING PROPERTIES, THE COPPER PLATE HAS BRIGHT SURFACE AFTER ROLLING.
铝冷轧添加剂 Flularoll AD 8510 ALUMINUM COLD ROLLING ADDITIVES FLULAROLL AD 8510	20	适用于铝薄板的精轧。 PRECISION ROLLING FOR ALUMINUM SHEET/COIL.
铝冷轧添加剂 Flularoll AD 8560 ALUMINUM COLD ROLLING ADDITIVES FLULAROLL AD 8560	60	适用于铝箔的精轧。 PRECISION ROLLING FOR ALUMINUM FOIL.

轧制介质

ROLLING FLUIDS

轧制液 ROLLING FLUIDS

产品名称 Product	PH(5%)	应用说明 Application Description
钢板冷轧制乳化液 Flularoll S 8220 STEEL PLATE COLD ROLLING FLUID FLULAROLL S 8220	5.8	适用于速度低的可逆轧机钢板的轧制。 IT IS USED AT LOW SPEED REVERSING ROLLING MILL FOR STEEL PLATE COLD ROLLING.

轧制介质

ROLLING FLUIDS

轧制液 ROLLING FLUIDS

产品名称 Product	PH(5%)	应用说明 Application Description
钢板冷轧制乳化液 Flularoll S 8260 STEEL PLATE COLD ROLLING FLUID FLULAROLL S 8260	6.1	具有优异的轧制润滑性能，能有效降低轧制负荷。可长期使用，表面清洁度高，油耗低。适用于可逆轧机的轧制。 EXCELENT ROLLING LUBRICATING PROPERTIES, CAN REDUCE ROLLING FORCE EFFECTIVELY. CAN BE USED FOR LONG TIME. HIGH SURFACE CLEAN AND BRIGHT, LOW OIL CONSUMPTION. IT IS USED AT LOW SPEED REVERSING ROLLING MILL FOR STEEL PLATE ROLLING.
钢板冷轧制乳化液 Flularoll S 8290 STEEL PLATE COLD ROLLING FLUID FLULAROLL S 8290	5.5	具有优异的轧制润滑性能，能有效降低轧制负荷。可长期使用，表面清洁度高，油耗低。适用于高速、高压下量可逆轧机、连轧机钢板的轧制。 EXCELENT ROLLING LUBRICATING PROPERTIES, CAN REDUCE ROLLING FORCE EFFECTIVELY. CAN BE USED FOR LONG TIME. HIGH SURFACE CLEAN AND BRIGHT, LOW OIL CONSUMPTION. IT IS USED AT HIGH SPEED, HIGH REDUCTION REVERSING ROLLING MILL, TANDEM MILL.
铝板热粗轧制乳化液 Flularoll A 8710 ALUMINUM PLATE HOT ROUGH ROLLING FLUID FLULAROLL A 8710	8.1	适用于铝热粗轧机。具有优良的润滑和冷却性能，可有效达到润滑和冷却的平衡，轧制后铝板表面光亮。有效降低轧辊辊耗以及轧机能耗。 IT IS USED FOR ALUMINUM PLATE HOT ROUGH ROLLING PROCESSING. GOOG LUBRICATING AND COOLING PROPERTIE, CAN ACHIEVE BALANCE BETWEEN LUBRICATING AND COOLING EFFECTIVLY, THE ALUMINUM PLATE HAS BRIGHT SURFACE AFTER ROLLING. CAN REDUCE ROLLER CONSUMPTION AND MILL ENERGY CONSUMPTION EFFECTIVELY.
铝板热粗/精轧制乳化液 Flularoll A 8730 ALUMINUM PLATE HOT ROUGH/ FINISH ROLLING FLUID FLULAROLL A 8730	8	适用于铝热粗/精轧机。具有优良的润滑和冷却性能，可有效达到润滑冷却的平衡，轧制后铝板表面光亮。有效降低轧辊辊耗以及轧机能耗。 IT IS USED FOR ALUMINUM PLATE HOT ROUGH/FINISH ROLLING PROCESSING. CAN ACHIEVE BALANCE BETWEEN LUBRICATING AND COOLING EFFECTIVLY, THE ALUMINUM PLATE HAS BRIGHT SURFACE AFTER ROLLING. CAN REDUCE ROLLER CONSUMPTION AND MILL ENERGY CONSUMPTION EFFECTIVELY.
铝板热精/连轧制乳化液 Flularoll A 8760 ALUMINUM PLATE HOT ROUGH/ TANDEM ROLLING FLUID FLULAROLL A 8760	8	适用于铝热精/连机。具有优良的润滑和冷却性能，可有效达到润滑和冷却的平衡，轧制后铝板表面光亮。有效降低轧辊辊耗以及轧机能耗。 IT IS USED FOR ALUMINUM PLATE HOT ROUGH/TANDEM ROLLING PROCESSING. CAN ACHIEVE BALANCE BETWEEN LUBRICATING AND COOLING EFFECTIVLY, THE ALUMINUM PLATE HAS BRIGHT SURFACE AFTER ROLLING. CAN REDUCE ROLLER CONSUMPTION AND MILL ENERGY CONSUMPTION EFFECTIVELY.
铜板热轧制乳化液 Flularoll CU 8810 COPPER PLATE HOT ROLLING FLUID FLULAROLL CU 8810	7.6	乳化液稳定，润滑性能优良，轧制后铜带表面光亮。适用于各种铜板的热轧。 STABLE EMULSION, GOOG LUBRICATING PROPERTIES, THE COPPER PLATE HAS BRIGHT SURFACE AFTER ROLLING. IT IS USED FOR COPPER PLATE HOT ROLLING.
钢板平整液 Flulatemp 8310 STEEL PLATE TEMPERING FLUID FLULATEMP 8310	9.6	具有优良的清洗能力和防腐蚀性能。适用于清洁度要求较高的连退线平整。 GOOD CLEAN CAPABILITY AND ANTI-CORROSION PROPERTIES. IT IS USED FOR CONTINUOUS ANNEALING LINE TEMPERING IN CASE OF HIGH CLEANNESS REQUIREMENT.

清洗剂

CLEANERS

产品名称 Product	PH(2%)	应用说明 Application Description
溶剂型清洗剂 Flulaclean 5100 SOLVENT BASED CLEANER FLULACLEAN 5100		低气味，无残留。优良的清洗能力。 LOW ODOR, NO RESIDUE. EXCELLENT CLEAN ABILITY.
多用途清洗剂 Flulaclean 5210 MULTI-PURPOSE CLEANER FLULACLEAN 5210	12.5	低泡，适用于喷淋清洗。用于黑色金属工件表面油污清洗。 LOW FOAMING. USED FOR CLEANING OIL STAINS ON THE SURFACE OF FER ROUS METAL WORKPIECE.
多用途清洗剂 Flulaclean 5210A MULTI-PURPOSE CLEANER FLULACLEAN 5210A	10.3	低泡，适用于喷淋清洗。用于黑色金属工件表面油污清洗。 LOW FOAMING. USED FOR CLEANING OIL STAINS ON THE SURFACE OF FER ROUS METAL WORKPIECE.
高效清洗剂 Flulaclean 5220 HIGH PERFORMANCE CLEANER FLULACLEAN 5220	12.5	适用于超声波清洗。用于黑色金属工件表面清除中型或重型油污。 SUITABLE FOR ULTRASONIC CLEANING. IT IS USED FOR CLEANNING A VARIET OF METAL AND NON FERROUSE METAL SURFACE.
高效清洗剂 Flulaclean 5220A HIGH PERFORMANCE CLEANER FLULACLEAN 5220A	10.5	适用于超声波清洗。用于各种金属工件表面清除中型或重型油污。 SUITABLE FOR ULTRASONIC CLEANING. IT IS USED FOR CLEANNING A VARIET OF METAL AND NON FERROUSE METAL SURFACE.
中性清洗剂 Flulaclean 5240 NEUTRAL CLEANER FLULACLEAN 5240	9.2	特别适合于清洗机器，有色金属，塑料，胶，地面的油污。 USED FOR CLEANNING OIL CONTAMINATION FROM MACHINE, NON-FERROUSE METAL, PLASTIC, RUBBER, FLOOR.
防锈清洗剂 Flulaclean 5250 ANTI-RUST CLEANER FLULACLEAN 5250	10.2	具有长期防锈性。 LONG TERM RUST RESISTANCE.

防锈油

RUST PREVENTIVES

产品名称 Product	防锈期/月 Rust Proof Life/Month	应用说明 Application Description
溶剂型长期防锈油 Flulacoat 3510TT SOLVENT BASED LONG- TERM RUST PREVENTIVE OIL FLULACOAT 3510TT	6-12	油膜，超薄型免清洗。 OIL FILM, EXTREME THIN LAYER AND NOT REQUIRED TO BE CLEANNED.

防锈油

RUST PREVENTIVES

产品名称 Product	防锈期/月 Rust Proof Life/Month	应用说明 Application Description
溶剂型长期防锈油 Flulacoat 3520 SOLVENT BASED LONG- TERM RUST PREVENTIVE OIL FLULACOAT 3520	12-24	长期防锈保护。 LONG TERM RUST PROTECTION.
高性能防锈油 Flulacoat 3610B RUST PREVENTIVE OIL FLULACOAT 3610B	6-12	油膜，易于清洗。主要用于钢铁成品、在仓储和运输过程中的防锈保护。 OIL FILM, EASILY CLEANED, IT IS MAINLY USED FOR STEEL FINISHED PRODUCT STOR AGE RUST PREVENTIVE AND TRANSPORTATION PROCESS.
高性能防锈油 Flulacoat 3620 RUST PREVENTIVE OIL FLULACOAT 3620	12-24	长期防锈保护。 LONG TERM RUST PROTECTION.
全合成水基防锈剂 Flulacoat 3203 FULLY SYNTHETIC WATER- BASED RUST INHIBITOR FLULACOAT 3203	1-3	绿色环保。根据防锈要求，产品可稀释不同的浓度达到防锈效果。 AND IT IS A GREEN ENVIROMENT FRIENDLY INHIBITOR. ACCORDING TO THE REQUIREMENTS OF RUST PROTECTION, THE PRODUCT COULD BE DILUTED WITH DIFFERENT CONCENTRATION TO ACHIEVE THE EFFECT OF RUST PROTEC TION.
全合成水基防锈剂 Flulacoat 3221 FULLY SYNTHETIC WATER- BASED RUST INHIBITOR FLULACOAT 3221	6-12	绿色环保。根据防锈要求，产品可稀释不同的浓度达到防锈效果。 AND IT IS A GREEN ENVIROMENT FRIENDLY INHIBITOR. ACCORDING TO THE REQUIREMENTS OF RUST PROTECTION, THE PRODUCT COULD BE DILUTED WITH DIFFERENT CONCENTRATION TO ACHIEVE THE EFFECT OF RUST PROTEC TION.

矿山支架液

MINING FLUIDS

产品名称 Product	PH(4%)	应用说明 Application Description
半合成型矿山支架液 Flulamin (ME10-4)9300 SEMI-SYNTHETIC LONGWALL ROOF SUPPORTING FLUID FLULAMIN (ME10-4)9300	9.0	稳定的微乳液，润滑和防腐蚀性能优异。耐中，软硬度水，不产生析油、析皂现象，无细菌，真菌滋生。 STABLE MICROEMULSION, EXCELLENT LUBRICATING AND CORROSION PREVENTITIVE PROPERTIES. RESISTANCE TO MEDIUM, SOFT HARDNESS WATER, DOES NOT PRODUCE THE SEPARATION OUT PHENOMENON OF OIL AND SOAP, NO BACTERIA, FUNGI BREEDING.
全合成型矿山支架液 Flulamin (MS10-4)9100 SYNTHETIC LONGWALL ROOF SUPPORTING FLUID FLULAMIN (MS10-4)9100	9.0	非常稳定的新型的抗燃液压液产品，润滑和防腐蚀性能优异。耐高硬度水，无细菌，真菌滋生。 VERY STABLE AND NEW TYPE OF FIRE-RESISTANCE HYDRAULIC FLUID, EXCELLENT LUBRICATING AND CORROSION PREVENTITIVE PROPERTIES. RESISTANCE TO HIGH HARDNESS WATER, NO BACTERIA, FUNGI BREEDING.

脱模剂

DIE CASTING LUBRICANTS

产品名称 Product	PH	应用说明 Application Description
铝合金脱模剂 Flulada A 系列 ALUMINUM ALLOY DIE CASTING LUBRICANT FLULADA A SERIES	8.6	不含石墨的水溶性压铸件脱模剂。具有优良的润滑和脱模性能、热稳定性、工件表面光洁度高、且经济耐用。 WATER SOLUBLE DIE CAST AGENT WHICH DOES NOT CONTAIN GRAPHITE, EXCELLENT LUBRICATING AND DEMOULDING PERFORMANCE, HIGH THERMAL STABILITY, HIGH PART SURFACE BRIGHTNESS, ECONOMICAL AND DURABLE.
镁合金脱模剂 Flulada M 系列 MAGNESIUM ALLOY DIE CASTING LUBRICANT FLULADA M SERIES	8.7	不含石墨的水溶性压铸件脱模剂。工件表面光洁度高，具有优良的润滑和脱模性、成膜均匀，提高模具寿命。 WATER SOLUBLE DIE CAST AGENT WHICH DOES NOT CONTAIN GRAPHITE, EXCELLENT LUBRICATING AND DEMOULDING PERFORMANCE, HIGH PART SURFACE BRIGHTNESS, FILM UNIFORMITY, LONG MOULDING LIFE.
橡胶脱模剂 Flulada R 系列 RUBBER DIE CASTING LUBRICANT FLULADA R SERIES	8.5	水溶性橡胶脱模剂。不会产生水纹，具有优良的润滑和脱模性。 WATER SOLUBLE DIE CAST AGENT. WILL NOT PRODUCE WATER RIPPLE, EXCELLENT LUBRICATING AND DEMOULDING PERFORMANCE.

润滑脂

UBRICATING GREASES

产品名称 Product	温度范围(℃) Temperature Range(℃)	应用说明 Application Description
耐水润滑脂 Flulagre RW 系列 WATER RESISTANT GREASE FLULAGRE RW SERIES	-40~100	优良的耐水、防锈、低温性能。 EXCELLENT WATER RESISITANT, RUST PREVENTIVE, LOW TEMPERATURE PROPERTIES.
重负荷润滑脂 Flulagre HMO 系列 HEAVY DUTY GREASE FLULAGRE HMO SERIES	-30~120	含有 MoS ₂ 的重负荷润滑脂。可用于各种重负荷下的齿轮、轴承联轴器、和等速万向节的润滑。 CONTAIN MOS ₂ . SUITABLE FOR LUBRICATING GEAR AT HEAY LOAD, BEARING COUPLING, CONSTANT VELOCITY UNIVERSAL JOINT.
通用工业锂基脂 Flulagre GL 系列 LITHIUM BASED GEASE FLULAGRE GL SERIES	-30~120	适用于一般负荷的工业轴承润滑。 SUITABLE FOR LUBRICATING INDUSTRIAL BEARING AT GENERAL LOAD.
耐压锂基脂 Flulagre EPL 系列 EP LITHIUM BASED GEASE FLULAGRE EPL SERIES	-20~140	重负荷，具有优秀的泵送性能，适用于高负荷低到中速度工业轴承润滑和中央集中润滑系统。 HEAVY DUTY, HAVE EXCELLENT PUMPING PROPERTIES, SUITABLE FOR LUBRICATING INDUSTRIAL BEARING AT HEAY LOAD AND LOW TO MEDIUM SPEED.
复合锂基脂 Flulagre CL 系列 COMPLEX LITHIUM BASED GEASE FLULAGRE CL SERIES	-20~150	长寿命、高性能，适用于工作在高负荷、高剪切下的工业和工程机械轴承的润滑。 LONG LIFE, HIGH PERFORMANCE, SUITABLE FOR LUBRICATING INDUSTRIAL AND ENGINEERING MACHINERY BEARING AT HEAY LOAD AND HIGH SHEARING.
复合钙基脂 Flulagre CCA 系列 COMPLEX CALCIUM BASED GEASE FLULAGRE CCA SERIES	-30~150	长寿命、高性能，具有优秀的泵送性能，特别适用于冶金工业连铸轧机的润滑。 LONG LIFE, HIGH PERFORMANCE, EXCELLENT PUMPING PROPERTIES, ESPECIALLY SUITABLE FOR LUBRICATING CASTING ROLLING MILL OF METALLURGICAL INDUSTRY.

金属表面处理产品

METAL SURFACE TREATMENT PRODUCTS

产品名称 Product	PH(5%)	应用说明 Application Description
高效脱脂剂 Flulaface 2110 EFFICIENT DEGREASER FLULAFACE 2110	>12	含高效表面活性剂，除油脂能力强，泡沫低。适用于钢铁、镀锌钢板等工件表面磷化前的脱脂。 CONTAINS EFFICIENT SURFACTANT, HAVE STRONG ABILITY TO REMOVE OFF GREASE, LOW FOAMING. SUITABLE FOR DEGREASING PART SURFACE OF STEEL AND GALVANIZED STEEL SHEET BEFORE PHOSPHATING.
高效脱脂剂 Flulaface 2120 EFFICIENT DEGREASER FLULAFACE 2120	1.2	铝及铝合金用脱脂腐蚀处理剂。具有优秀的脱脂能力和腐蚀能力，尤其适合作为铬酸盐钝化处理前的脱脂腐蚀处理剂。 DEGREASER AND CORROSION TREATMENT AGENT FOR ALUMINUM AND ALUMINUM ALLOY. EXCELLENT DEREASER ABILITY AND CORROSION ABILITY, ESPECIALLY SUITABLE FOR DEGREASER AND CORROSION TREATMENT BEFORE CHROMATE PASSIVATION.
高效除锈剂 Flulaface 2220 EFFICIENT RUST REMOVER FLULAFACE 2220	1.5	酸性高效快速除锈剂，本品可广泛用于钢、铁、铜等金属制件上锈层及氧化皮的清除。 EFFICIENT ACIDIC RUST REMOVER. WIDELY USED FOR REMOVING METAL RUST LAYER AND OXIDE OF STEEL, IRON, COPPER ETC.
高效除油除锈剂 Flulaface 2230 EFFICIENT OIL AND RUST REMOVER FLULAFACE 2230	1.5	适用于钢铁件的除锈除油处理，可使清洗表面光亮如新。 SUITABLE FOR REMOVING RUST AND OIL FROM STEEL AND IRON PARTS, AND MAKE THE SURFACE TO BRIGHT SAME AS NEW ONE.
铁系磷化液 Flulaface 2310 IRON SERIES PHOSPHATING LIQUID FLULAFACE 2310	4.5	在金属工件表面形成一层薄而细密的磷化膜，与工件的结合力强，防锈性好。广泛用于电泳、喷漆、喷塑等工艺的配套底层。 FORMING A LAYER OF THIN AND FINE PHOSPHATING FILM AT SURFACE OF METAL PARTS. STRONG BONDING FORCE WITH PARTS, GOOD ANTI-RUST PROPERTIES. WIDELY USED FOR AUXILIARY BOTTOM LAYER FOR ELECTROPHORESIS, SPRAY COAT, POWDER COATING PROCESS.
锌系磷化液 Flulaface 2320 ZINC SERIES PHOSPHATING LIQUID FLULAFACE 2320	4.5	可在金属工件表面形成一层薄而致密均匀的磷酸锌系皮膜，不仅使工件表面具有优良的耐腐蚀性，而且可以增强后续涂装膜层的附着力。 FORMING A LAYER OF THIN AND FINE ZINC PHOSPHATING FILM AT SURFACE OF METAL PARTS, EXCELENT ANTI-CORROSION PROPERTIES FOR PART SURFACE, AND ALSO ENHANCING ADHESION ABILITY FOR SUBSEQUENT COATING FILM.
锰系磷化液 Flulaface 2330 MANGANESE SERIES PHOSPHATING LIQUID FLULAFACE 2330	5.2	可在金属工件表面形成有良好耐腐蚀性的锰系皮膜，还可明显提高工件的耐磨性。 FORMING A LAYER OF GOOD ANTI-CORROSION MANGANESE PHOSPHATING FILM AT SURFACE OF METAL PARTS, ALSO SIGNIFICANTLY ENHANCING WEAR RESISTANCE OF THE PARTS.
钝化液 Flulaface 2410 PASSIVATING AGENT FLULAFACE 2410	4.6	不含铬的环保型钝化产品，具有与六价铬钝化产品相当的耐蚀性，成膜均与、色泽均衡。适用于钢板镀锌后的钝化工艺。 NO CHROMATE ENVIROMENTAL-FRIENDLY PASSIVATING PRODUCT, HAVE SIMILAR ANTI-CORROSION PROPERTIES AS HEXAVALENT CHROMIUM PASSIVATING PRODUCT, UNIFORM FILM FORMATION, BLANCED COLOR AND LUSTRE. SUITABLE FOR PASSIVATING PROCESS AFTER STEEL SHEET GALVANIZED.
钝化液 Flulaface 2420 PASSIVATING AGENT FLULAFACE 2420	4.2	不含六价的三价格钝化产品。具有稳定性高、成膜快、无需加温等特点。适用于铝材钝化工艺。 TRIVALENT CHROMIUM PASSIVATING PRODUCT WITH NO HEXAVALENT CHROMIUM. HAVE HIGH STABILITY, QUICK FILM FORMATION, WITHOUT HEATING. SUITABLE ALUMINIUM PRODUCT PASSIVATING PROCESS.
硅烷皮膜剂 Flulaface 2510 SILANE FILM AGENT FLULAFACE 2510	4.5	环境友好型产品，不含任何有害重金属与有毒成分、无磷、无渣，适用于多种金属表面的处理，代替铁系磷化、锌系磷化用于涂装前处理。 ENVIROMENTAL-FRIENDLY PRODUCT, NO ANY HARMFUL HEAVY METAL AND TOXIC COMPONENT, PHOSPHATE-FREE, RESIDUE-FREE, SUITABLE FOR MANY KINDS OF METAL SURFACE TREATMENT, USED FOR THE COATING PRETREATMENT TO REPLACE IRON PHOSPHATING, ZINC PHOSPHATING.

金属表面处理产品

METAL SURFACE TREATMENT PRODUCTS

产品名称 Product	PH(5%)	应用说明 Application Description
全合成封闭剂 Flulaface 2720	9.3	适用于已具有钝化膜的金属涂层的后处理。提高其抗腐蚀性。
SYNTHETIC SEALING AGENT FLULAFACE 2720		SUITABLE FOR POST-PROCESSING OF METAL COATING THAT HAS PASSIVATING FILM. INCREASE ANTI-CORROSION PROPERTIES.
溶剂型封闭剂 Flulaface 2740		具有脱水功能，适用于已具有钝化膜的金属涂层的后处理。提高其抗腐蚀性。
SOLVENT BASED SEALING AGENT FLULAFACE 2740		SUITABLE FOR POST-PROCESSING OF METAL COATING THAT HAS PASSIVATING FILM. INCREASE ANTI-CORROSION PROPERTIES.
表面调整剂 Flulaface 2010	4.5	适用于磷化前的预处理。可显著提高成膜速度和磷化膜的细密度，提高磷化后工件的抗腐蚀性。
SURFACE CONDITIONER FLULAFACE 2010		SUITABLE FOR PRE-PROCESSING BEFORE PHOSPHATING, INCREASE FILM FORMATION SPEED AND FINE DEMSITY OF PHOSPHATING FILM, INCREASE ANTI-CORROSION PROPERTIES.

工业设备润滑油

INDUSTRIAL EQUIPMENT LUBRICANTS

产品名称 Product	粘度等级(mm²/s) (40℃) Viscosity (mm²/s) (40℃)	应用说明 Application Description
抗磨液压油 Flulahydra HM 系列	32、46、68、100、150	具有有效的抗氧化、抗泡沫和抗乳化性能之外，还能提供优异的抗磨、极压和防锈性能。用于要求长期稳定的液压操作系统。
ANTIWEAR HYDRAULIC OIL FLULAHYDRA HM SERIES		EXCEPT EXCELLENT ETECTING ANTI-OXIDATION、ANTI-RUST、ANTI-FOAMING AND OUT-STANDING ANTI EMULSIFYING PROPERITES, PROVIDE EXCELLENT ANTIWEAR、EP PROP-ERTIES. IT IS USED FOR HYDRAULIC OPERATING SYSTEM REQUIRED FOR LONG TERM STABILITY.
无锌无灰抗磨液压油 Flulahydra NZ 系列	32、46、68	具有抗腐蚀、抗老化、抗磨损的性能。适用于含铜、银部件液压系统的润滑。
ZINC- AND ASH-FREE ANTIWEAR HYDRAULIC OIL FLULAHYDRA NZ SERIES		ZINC- AND ASH-FREE, EXCELLENT CORROSION PROTECTION, GOOD OXIDATION AND AGEING RESISTANCE, POWERFUL EP PROPERTIES AND WEAR PROTECTION.
低温抗磨液压油 Flulahydra HV 系列	32、46、68、100	具有高粘度指数和低倾点，适用于露天、寒区及环境温度变化大或工况苛刻的中、高压液压系统。
LOW TEMPERATURE ANTIWEAR HYDRAULIC OIL FLULAHYDRA HV SERIES		WITH HIGH VISCOSITY INDEX AND LOW POUR POINT, IT IS SUITABLE FOR MEDIUM AND HIGH PRESSURE HYDRAULIC SYSTEMS IN OPEN AIR, COLD REGIONS, AND ENVIRONMENTS WITH LARGE TEMPERATURE CHANGES OR HARSH WORKING CONDITIONS.
水乙二醇抗燃液压液 Flulahydra FA 系列	46、68	具有润滑性能好、粘度指数高、使用安全、寿命长等优点。优良的抗燃性能，保证产品广泛用于接近热源、有火灾危险的各种设备的液压系统中。
ETHYLENE GLYCOL FIRE RESISTANCE HYDRAULIC OIL FLULAHYDRA FA SERIES		GOOD LUBRICATION、HIGH VISCOSITY INDEX、OPERATION SAFETY、LONG LIFE. EXCEL LENT FIRE-RESISTANT PROPERTIES, ENSURE THE PRODUCTS TO BE WIDELY USED IN HYDRAULIC SYSTEMS THAT CLOSED TO THE HEAT SOURCE、AND HAVE FIRE DANGER.
聚酯难燃液压油 Flulahydra FO 系列	32、46、68	极佳的润滑性，闪点亮。是一种对抗燃和润滑均严格要求的最理想的抗燃液。可用于含水抗燃液压液不能满足润滑的场合。
POLYOL ESTER FIRE RESISTANCE HYDRAULIC OIL FLULAHYDRA FO SERIES		EXCELLENT LUBRICATION, HIGH FLASH POINT. THEY ARE IDEAL FIRE-RESISTANT HYDRAULIC FLUID WITH STRICT REQUIREMNETS OF BOTH LUBRUCATION AND FIRE-RESISTANT. THEY ARE USED FOR SYSTEM THAT CAN BE NOT MEET REQUIRENENT BY WATER BASED FIRE-RESISTANT HYDRAULIC FLUID.

工业设备润滑油

INDUSTRIAL EQUIPMENT LUBRICANTS

产品名称 Product	粘度等级(mm²/s) (40℃) Viscosity (mm²/s) (40℃)	应用说明 Application Description
磷酸酯抗燃液压油 Flulahydra FP 系列	32、46、68	极佳的抗燃性、润滑性、热稳定性和抗腐蚀性。突出的阻燃性能，即使在有着火源的地方使用，也会经由自我消防性而不会继续燃烧。
PHOSPHATE ESTER FIRE RESISTANCE HYDRUALIC OIL FLULAHYDRA FP SERIES		EXCELLENT FIRE-RESISTANT PROPERTIES、LUBRICATION、HEAT STABILITY AND ANTI-CORROSION PROPERTIES. OUTSTANDING FLAME RETARDANT PERFORMANCE, EVEN THEY ARE USED IN PLACES WHERE CLOSED TO A FIRE, THEY WILL BE NOT BURNED BECAUSE OF THEIR FIRE CONTROL PROPERTIES.
优质高压齿轮油 Flulagear 系列	68、100、150、220、320、460、680	具有优异的抗极压、抗磨损失性能、热稳定性和突出的抗氧化性、防腐蚀性。适用于重负荷工业齿轮组及其他引起振动负荷的齿轮，适用于循环系统及工业闭式齿轮传动装置的润滑。
EP GEAR OIL FLULAGEAR EP SERIES		EXCELLENT EXTREME PRESSURE PROPERTIES、WEAR PROTECTION PROPERTIES、THERMOSTABILITY AND OUTSTANDING ANTI-OXIDATION PROPERTIES、ANTI-CORRO- SION PROPERTIES. THEY ARE SUITABLE FOR HEAY DUTY INDUSTRIAL GEAR SET AND GEARS THAT HAVE VIBRATION CAUSED BY THE LOAD. THEY ARE ALSO SUITABLE FOR LUBICATING CIRCULATING SYSTEM AND INDUSTRIAL CLOSED TRANSMISSION GEAR.
全合成齿轮油 Flulagear S 系列	100、150、220、320、460	具有优异的抗磨、极压和防锈性能之外，还能提供优异的抗氧化性、润滑性和低温性能。使用寿命明显延长。
SYNTHETIC GEAR OIL FLULAGEAR S SERIES		WITH EXCELLENT EXTREME PRESSURE PROPERTIES、WEAR PROTECTION PROPERTIES、RUST RESISTANCE, ALSO CAN PROVIDE OUTSTANDING OXIDATION RESISTANCE、LUBRI- CATION AND LOW TEMPERATURE PROPERTIES. SIGNIFICANTLY EXTENT SERVICE LIFE.
蜗轮蜗杆油 Flulascrew	220、320、460	良好的极压、抗磨损性能，适用于铜-钢配对的圆柱型承受重负荷、传动中有振动和冲击负荷的蜗轮蜗杆。
WORM GEAR AND WORM OIL FLULASCREW		GOOD EXTREME PRESSURE AND WEAR RESISTANCE, SUITABLE FOR COPPER STEEL PAIRED CYLINDRICAL WORM GEARS THAT WITHSTAND HEAVY LOADS, VIBRATION AND IMPACT LOADS IN TRANSMISSION.
压缩机油 Flulacomp 系列	32、46、68	具有极佳的抗磨、抗氧化稳定性、防腐和水分离等性能。适用于螺杆式压缩机。
COMPRESSOR OIL FLULACOMP SERIES		EXCELLENT WEAR PROTECTION PROPERTIES、OXIDATION RESISTANCE、CORROSION RESISTANCE AND WATER SEPERATION PROPERTIES. THEY ARE SUITABLE FOR SCREW-AIR COMPRESSOR.
汽轮机油 Flulaturbine 系列	32、46、68	优异的润滑性和防锈防腐性，适用于大功率汽轮机、大中型船舶及其它工业蒸汽汽轮机、水轮机组的润滑和密封。
TURBINE OIL FLULATURBINE SERIES		EXCELLENT LUBRICITY, RUST PREVENTION AND CORROSION RESISTANCE, SUITABLE FOR LUBRICATION OF HIGH-POWER STEAM TURBINES, LARGE AND MEDIUM-SIZED SHIPS, AND OTHER INDUSTRIAL STEAM TURBINES AND WATER TURBINE UNITS.
导轨油 Flulaslide 系列	32、46、68、100、150、220、320	具有极佳的抗氧化稳定性、能有效防止导轨的爬行。适用于各种工作机械之导轨，尤其是工作台导轨。
SLIDEWAY OIL FLULASLIDE SERIES		EXCELLENT OXIDATION STABILITY、EFFICIENT AVOIDANCE OF STICK-SLIP. THEY ARE SUITABLE FOR ALL KINDS OF SLIDEWAY OF MACHINE TOOLS, ESPECIALLY SLIDEWAY OF WORKBENCH.
导热油	32、46、68	优良的高温稳定性及抗氧化性。适用于强制或非强制循环的开式或闭式传热系统。
HEAT TRANSFER OIL FLULAHEAT SERIES		EXCELLENT HIGH-TEMPERATURE STABILITY AND OXIDATION RESISTANCE. OPEN OR CLOSED HEAT TRANSFER SYSTEMS SUITABLE FOR FORCED OR NON FORCED CIRCULATION.
合成导热油	22	优良的抗热裂化及抗氧化性能，使用寿命长。适用于各种闭式导热系统。
COMPOSE HEAT TRANSFER OIL FLULAHEAT SERIES		EXCELLENT THERMAL CRACKING RESISTANCE AND OXIDATION RESISTANCE, LONG SERVICE LIFE. SUITABLE FOR VARIOUS CLOSED HEAT TRANSFER SYSTEMS.

工业设备润滑油

INDUSTRIAL EQUIPMENT LUBRICANTS

产品名称 Product	粘度等级(mm²/s) (40℃) Viscosity (mm²/s) (40℃)	应用说明 Application Description
高温链条油 HIGH TEMPERATURE CHAIN OIL FLULACHAIN SERIES	460	优异的高温稳定性和极低的蒸发损失不含高温下易分解的组分，高温下积碳及结焦倾向极低并保持液体膜润滑。 EXCELLENT HIGH-TEMPERATURE STABILITY AND EXTREMELY LOW EVAPORATION LOSS DO NOT CONTAIN COMPONENTS THAT ARE EASY TO DECOMPOSE AT HIGH TEMPERATURES. CARBON DEPOSITION AND COKING TENDENCIES ARE EXTREMELY LOW AT HIGH TEMPERATURES AND MAINTAIN LIQUID FILM LUBRICATION.
合成高温链条油 COMPOSE HIGH TEMPERATURE CHAIN OIL FLULACHAIN SERIES	100、150、220、320、460	优异的抗氧和高温抗腐蚀性性能，金属的烤漆、喷涂生产线和各类烘烤、干燥设备的链条、轴承的润滑而开发的耐高温链条油。 EXCELLENT OXYGEN RESISTANCE AND HIGH-TEMPERATURE CORROSION RESISTANCE. HIGH TEMPERATURE RESISTANT CHAIN OIL DEVELOPED FOR THE LUBRICATION OF CHAINS AND BEARINGS IN METAL BAKING AND SPRAYING PRODUCTION LINES, AS WELL AS VARIOUS BAKING AND DRYING EQUIPMENT.
轴承油 BEARING OIL FLULABEAR SERIES	2、3、5、7、10、15、22	适用于纺织机械高速锭子、精密机床高速转轴、滑动轴承和其它轻负荷循环系统的润滑。 SUITABLE FOR HIGH-SPEED SPINDLES OF TEXTILE MACHINERY, HIGH-SPEED ROTATING SHAFTS OF PRECISION MACHINE TOOLS, SLIDING BEARINGS, AND OTHER LIGHT LOAD CYCLES LUBRICATION OF THE SYSTEM.
真空泵油 VACUUM PUMP OIL FLULAPUMP SERIES	46、68、100	适用于各种类型机械真空泵的密封与润滑。 SUITABLE FOR SEALING AND LUBRICATION OF VARIOUS TYPES OF MECHANICAL VACUUM PUMPS.
全合成高压风电齿轮油系列 Flulagear SYNW TOTAL SYNTHESIS HIGH EXTREME VOLTAGE WIND POWER GEAR OIL FLULAGEAR SYNW	150、220、320、460、680	具有杰出的热稳定性和抗氧化性能，较高的粘度指数。适用于承受极重负荷且兼有冲击负荷的风力发电齿轮箱、地处偏远的设备及在严寒下运作的设备。 IT HAS EXCELLENT THERMAL STABILITY, OXIDATION RESISTANCE, AND HIGH VISCOSITY INDEX. SUITABLE FOR WIND POWER GENERATION GEARBOXES THAT WITHSTAND EXTREMELY HEAVY LOADS AND HAVE IMPACT LOADS, REMOTE EQUIPMENT, AND EQUIPMENT OPERATING IN SEVERE COLD CONDITIONS.

车辆用润滑油

AUTOMOTIVE LUBRICANTS

产品名称 Product	级别(API) Grade(api)	粘度(SAE) Viscosomsity(SAE)	应用说明 Application Description
汽油发动机油 Flulamal EN SERIES ENGINE OIL FLULAMAL EN SERIES	SL、SN、SP	0W-30、0W-40 5W-30、5W-40	使用优质基础油及高性能添加剂，提供高水平的发动机保护。良好的粘温性能，优异的高温稳定性能和抗剪切性能，优越的清洁分散能力，有效控制油泥。 MADE WITH HIGH-QUALITY BASE OIL AND ADDITIVES, PROVIDE HIGH LEVEL ENGINE PROTECTION. THEY ACHIEVE EXCELLENT PERFORMANCE IN ALL GASOLINE AND DIESEL ENGINES. GOOD VISCOSITY-TEMPERATURE BEHAVIOR, EXCELLENT STABILITY AT HIGH TEMPERATURE AND SHEAR STABILITY, VERY GOOD ENGINE CLEANLINESS AND DISPERSION ABILITY, EFFECTIVELY CONTROL OIL SLUDGE.
全合成汽油发动机油 Flulamal ENT SERIES SYNTHETIC ENGINE OIL FLULAMAL ENT SERIES	SL、SN、SP	0W-30、0W-40 5W-30、5W-40	使用优质全合成油及高性能添加剂，提供优异的发动机保护。优异的抗氧化性能，杰出的润滑性，卓越的粘温性能，优异的高温稳定性能和抗剪切性能，优越的清洁分散能力，大大延长换油周期。 MADE WITH HIGH-QUALITY SYNTHETIC OIL AND ADDITIVES, PROVIDE HIGH LEVEL ENGINE PROTECTION. EXTENDED OIL CHANGE INTERVALS SIGNIFICANTLY.

车辆用润滑油

AUTOMOTIVE LUBRICANTS

产品名称 Product	级别(API) Grade(api)	粘度(SAE) Viscosomsity(SAE)	应用说明 Application Description
柴油发动机油 Flulamal DI SERIES DIESEL ENGINE OIL FLULAMAL DI SERIES	CH-4、CI-4 CJ-4、CK-4	5W-30、10W-40 15W-40、20W-50	使用优质基础油及高性能的添加剂，提供高水平的发动机保护。优良的高温清净性和润滑性，良好的抗氧化，优异的抗磨损性能。 MADE WITH HIGH-QUALITY BASE OIL AND ADDITIVES. PROVIDE HIGH LEVEL ENGINE PROTECTION.
全合成柴油发动机油 Flulamal DIT SERIES SYNTHETIC DIESEL ENGINE OIL FLULAMAL DIT SERIES	CH-4、CI-4 CJ-4、CK-4	5W-30、10W-40 15W-40、20W-50	使用优质全合成油及高性能的添加剂，提供优异的发动机保护。优异的抗氧化性能，杰出的润滑性，卓越的粘温性能，优异的高温稳定性能和抗剪切性能，优越的清洁分散能力，大大延长换油周期。 MADE WITH HIGH-QUALITY SYNTHETIC OIL AND ADDITIVES. PROVIDE HIGH LEVEL ENGINE PROTECTION. EXTENDED OIL CHANGE INTERVALS SIGNIFICANTLY.
全合成柴油发动机油 Flulamal DIT SERIES SYNTHETIC DIESEL ENGINE OIL FLULAMAL DIT SERIES	CH-4、CI-4 CJ-4、CK-4	5W-30、10W-40 15W-40、20W-50	使用优质全合成油及高性能的添加剂，提供优异的发动机保护。优异的抗氧化性能，杰出的润滑性，卓越的粘温性能，优异的高温稳定性能和抗剪切性能，优越的清洁分散能力，大大延长换油周期。 MADE WITH HIGH-QUALITY SYNTHETIC OIL AND ADDITIVES. PROVIDE HIGH LEVEL ENGINE PROTECTION. EXTENDED OIL CHANGE INTERVALS SIGNIFICANTLY.
车辆齿轮油 Flulamal AG 系列 VEHICAL GEAR OIL FLULAMAL AG SERIES	GL-5	75W-90、80W-90、 85W-90、85W-140	具有突出的抗磨损性能、优良的抗氧化能力、油的使用寿命长。良好的防腐，防锈能力。 OUTSTANDING WEAR PROTECTION, GOOD ANTI-OXIDATION PERFORMANCE, LONG OIL SERVICE LIFE. GOOD CORROSION AND RUST PROTECTION.
减震器油 Flulamal SAF 系列 SHOCK ABSORBER FLUID FLULAMAL SAF SERIES		16、32	具有突出的润滑和抗磨损性能，可有效保护减震器部件。优良的抗氧化能力，油的使用寿命长。良好的粘度稳定性能、优异的低温性能。独特的配方平衡系统，保证减震器部件稳定的运行。 OUTSTANDING LUBRICATION AND WEAR PROTECTION, PROTECT SHOCK ABSORBER PARTS EFFECTIVELY. GOOD ANTI-OXIDATION PERFORMANCE, LONG OIL SERVICE LIFE. GOOD VISCOSITY STABLE PERFORMANCE, EXCELLENT LOW TEMPERATURE PERFORMANCE.
自动传动液 Flulamal ATF 系列 AUTOMATIC TRANSMISSION FLUID FLULAMAL ATF SERIES	DEXRON II DEXRON III	36	良好的摩擦性能，使自动变速箱运行平稳、可靠、顺畅，良好的氧化安定性和热稳定性，防止油品变质，良好的抗磨、防腐性能，延长零件的工作寿命。 GOOD FRICTION PERFORMANCE TO MAKE AUTOMATIC TRANSMISSION GEARBOX TO HAVE OPERATE STEADILY, RELIABLELY, SMOOTHLY; GOOD OXIDATION AND THERMO STABILITY TO PROTECT OIL DETERIORATION; GOOD ANTI-WEAR AND CORROSION PROTECTION TO MAKE THE PARTS TO HAVE LONG WORKING LIFE.
摩托车油 Flulamal MT 系列 MOTOR OIL FLULAMAL MT SERIES	SE、SF、SG	5W-30、10W-30 15W-40、20W-50	优异的剪切性能和热稳定性。良好的清净分散性能，有效去除油泥和积炭。极佳的抗氧化性能，防止高温沉积及磨损。 EXCELLENT SHEAR AND THERMO STABILITY. GOOD DETERGENT AND DISPERSANT PROPERTIES TO EFFECTIVELY REMOVE OIL SLUDGE AND CARBON DEPOSIT. EXCELLENT ANTI- OXIDATION PROPERTIES TO PREVENT DEPOSIT FORMATION AND WEAR AT HIGH TEMPERATURE.
长效防冻液 Flulamal CO 系列 LONG EFFECT ANTI-FREEZER FLULAMAL CO SERIES	-20、-35、-45、 -55		具有优异的冷却和防锈性能。低冰点、高沸点、四季通用。 EXCELLENT COOLING PROPERTIES AND RUST PROTECTION. LOW FREEZING POINT, HIGH BOILING POINT, USED AT FOUR SEASONS.