

WHOLE PROCESS FLUIDS
WHOLEHEARTED SERVICE

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LEADING IN GREEN INDUSTRIAL
FLUIDS FIELD

METALWORKING FLUIDS PRODUCT CATALOGUE



NANJING KERUN LUBRICANTS CO.,LTD.

KERUN[®]
Eco-Industrial Fluids

Whole Process Fluids, Wholehearted Service

KERUN — The Leading National Brand in Industrial Media You Can Trust!

20+
Standard
Industry Standards Setter

20+
Years
Dedicated to Industrial Media

150+
Types
Industry Coverage

2000+
Clients
Proven Success Cases

Nanjing Kerun Lubricants Co., Ltd. (Stock Code: 835906), established in 2000, focuses on the R&D, production, sales, and service of green industrial process fluids. We provide comprehensive solutions for steel rolling, heat treatment, metalworking & forming, surface treatment, cleaning & rust prevention media, and supporting equipment.

As a National Key High-Tech Enterprise and a "Little Giant" enterprise, Kerun brings together top industry talent and operates a national postdoctoral research workstation. We have delivered successful full solutions to more than 2,000 customers across steel, automotive, aerospace, rail transit, engineering machinery, military, and other industries.

Driven by the mission "Flowing Technology, Empowering High-End Intelligent Manufacturing," Kerun is dedicated to becoming a leader in green industrial media. We actively respond to environmental policies and the "Dual Carbon" goals by offering high-performance, long-life eco-friendly fluids, along with full-lifecycle management and professional media stewardship services to help customers enhance quality, reduce costs, and boost efficiency.

THREE PLATFORMS

R&D
PLATFORM

INTELLIGENT
MANUFACTURE

APPLICATION
TECHNOLOGY PLATFORM

TWO SERVICES

CUSTOMIZED
SUPPORT SERVICE

LUBRICANTS MANAGEMENT
SERVICE



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WORTH IT

RELIABLE HEAT TREATMENT CONSULTANT

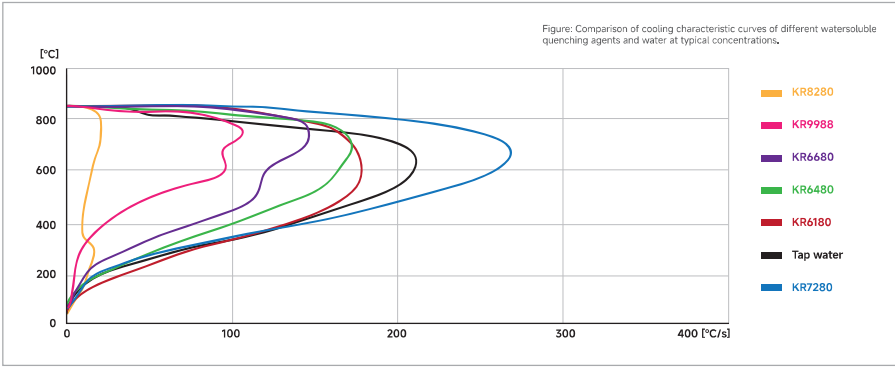
HEAT TREATMENT

Kerun is dedicated to driving innovation in heat treatment processes. We deliver customized, fullprocess heat treatment solutions according to each client's unique product needs, helping customers achieve superior performance, stable quality, and stronger core competitiveness. Backed by more than 20 years of hands-on experience across diverse industries and a robust application technology database, we act as a reliable partner and trusted advisor for all your heat processing requirements.

- | | | |
|---|--------------------------------------|--|
| 1 | POLYMER
QUENCHING | High and uniform surface hardness after quenching, effectively reduces distortion
Clean production environment: non-flammable, smokeless, and no fire hazard
Green and environmentally friendly, zero pollution |
| 2 | FAST BRIGHT
QUENCHING OIL | Strong cooling capacity: fast cooling at high temperatures, moderate at low temperatures
Workpieces are easy to clean after quenching
Excellent thermal oxidation stability and long service life |
| 3 | ISOTHERMAL
QUENCHING OIL | High flash point for safe use
Reduces quenching distortion on complex-shaped parts, effectively improving product precision
Easy to clean, excellent thermal oxidation stability, and long service life under hightemperature conditions |
| 4 | MOLTEN SALT
QUENCHING | Stable formulation with uniform mixing
High purity and low impurities, minimal salt sludge accumulation even after long-term use
Provides full application data and purification & filtration services for salt bath quenching media |
| 5 | SPECIAL
OIL | Reasonable cooling curve distribution
Achieves excellent surface brightness after quenching, easy to clean and polish
Superior thermal oxidation stability, maintains long-term stable cooling performance and longservice life |
| 6 | MOLTEN
SALT QUENCHANT | Narrow distillation range, low saturated vapor pressure, strong anti-vaporization ability, not easy to evaporate
Excellent brightness, easy to clean, low oil carryover
Good thermal oxidation stability and long service life |
| 7 | BLACKENING
AGENT | Uniform and good surface appearance on blackened workpieces
Strong adhesion and long anti-rust time
Safe, environmentally friendly, non-toxic, and non-volatile |
| 8 | ANTI-CARBURIZING
COATING | Very fine coating particles with excellent adhesion, resistant to peeling, cracking, or leakage
Stable at high temperatures, does not contaminate equipment or atmosphere
Easy and convenient application, suitable for automatic spraying lines |

POLYMER QUENCHING

Model	 Concentration %	 Kinematic Viscosity (40°C, 10% min/1%)	 Operation Temperature °C	 Typical Application
KR1280	10-30	7.80	10-50	Controlled cooling and residual heat normalizing after alloy steel forging. Replaces traditional air mist cooling or normalizing, improving structural uniformity, production efficiency, and reducing costs.
KR6180	5-15	1.43	5-40	Quenching of medium-to-large low- and medium-carbon alloy steel parts, and small-to-medium carbon steel workpieces.
KR6280	5-10	1.66	10-45	Integral and induction quenching of medium- and low-carbon alloy steels and carbon steels. Provides good rust protection under medium-to-low concentrations.
KR6380A	8-20	5.50 (38°C, 20%)	10-45	Solution treatment of aluminum alloys (excluding rust-proof grades) with high deformation requirements.
KR6480	3-20	1.84	10-45	Integral quenching, induction quenching, and carburizing quenching of large and medium-sized parts with medium-to-low hardenability, standard parts, shafts, forgings, and gears.
KR6580	5-15	1.98	10-50	Induction quenching of carbon steels 35, 45 and medium-low alloy steels such as 40Cr, 35CrMo, 42CrMo, 50Mn, 65Mn, 50CrV, GCr15, etc.
KR6680	5-20	2.29	10-50	Quenching and tempering of alloy steels, quenching of bearing steels, and carburizing quenching of 20Cr, 20CrMo, 20CrMnTi, etc.
KR7280	3-15	---	10-50	Quenching of carbon steels 08, 20, 35, 45, T8, T10 and low-alloy steels.
KR8180	8-15	11.00	85-95	Patenting (sorbite) quenching of steel wire.
KR8280	15-35	32.00 (30%)	10-50	Quenching of high-carbon chromium wear-resistant cast iron and cold work die steels (Cr12, Cr12MoV, etc.).
KR9988	4-25	3.19	10-50	Medium-to-large workpieces with medium-to-low hardenability such as 30CrMo, 40CrNiMoA, 42CrMo, etc. Also for quenching hot work die steels such as 5CrNiMo and H13.



COLD QUENCHING OIL

Type	Model	 Flash Point (°C)	 Max Cooling Rate (°C/s, 60°C)	 Kinematic Viscosity (40°C, mm²/s)	 Operation Temperature °C	 Typical Application
Overspeed Quenching Oil	KR105	155	108	8.0-12.0	20-50	Fast cooling rate. Ideal for quenching medium-to-large alloy steel parts, carburizing quenching of medium-to-large low-carbon alloy steel parts, especially for parts requiring high core hardness.
	KR-H05Y/B	150	108	6.0-11.0	20-50	Used in industries such as fasteners, chain plates, bearing rollers, and engineering machinery components. Also for mesh belt furnaces, mesh belt furnaces, shaker hearth furnaces, and open oil tanks.
	KR-H15B	160	105	12.0-18.0	20-60	Specially developed for the spring (leaf spring) industry. Fast cooling at high temperatures with relatively fast cooling speed at low temperatures.
	KR108	170	108	11.0-15.0	30-60	Very fast cooling rate with lower cooling capacity than KR105. Suitable for higher oil temperature conditions.
Fast Quenching Oil	KR115	155	108	8.0-12.0	40-60	Relatively fast cooling rate. Ideal for medium-to-large carbon steel parts, including low-carbon steel carburized parts. Meets surface hardness requirements well.
	KR-H15Y	160	103	12.0-18.0	40-80	Specially developed for the spring (leaf spring) industry. Fast cooling at high temperatures.
	KR-H17Y	165	105	12.0-20.0	40-60	Low viscosity, fast cooling at high temperatures, and good oil-water separation. Ideal for screw heat treatment quenching.
	KR118(H)	170	108	12.0-17.0	40-80	Relatively fast cooling rate. Ideal for medium-sized carbon steel and alloy steel parts. Wide application range. Also for multi-purpose furnaces, continuous furnaces, and mesh belt furnaces.
	KR128	180	95	20.0-30.0	40-80	Ideal for quenching gears, gear shafts, molds, spring pads, connecting rods and other parts made of medium-to-low carbon alloy steel, carburized steel, die steel, spring steel, etc.
Bright Quenching Oil	KR138	190	90	22.0-30.0	40-90	Ideal for quenching small-to-medium ordinary carbon steel and alloy steel parts such as diamond saw blades, oil nozzles, oil pumps, pre-stressed clamps, forgings, and other small parts.
	KR028	180	---	20.0-30.0	40-80	Medium hardenability. Bright quenching for medium and small workpieces. Also suitable for nitriding cooling of workpieces.
	KR038	190	---	30.0-40.0	40-90	High hardenability. Bright quenching for medium and small workpieces. Also suitable for nitriding cooling of workpieces.
	KR068	200	---	45.0-60.0	50-100	Lower hardenability. Bright quenching for medium and small workpieces. Also suitable for nitriding cooling of workpieces.

Note: The baking temperature of the overspeed quenching oil is below 60°C.

FAST BRIGHT QUENCHING OIL

Model	Flash Point (°C)	Max Cooling Rate (°C/s, 60 °C)	Kinematic Visc. (40°C,mm²/s)	Temp. °C	Typical Application
KR218(H)	170	103	14.0-23.0	40-80	Medium-sized carbon steel and alloy steel parts with wide application range.
KR-H18Y/B	170	103	12.0-20.0	40-80	Fasteners, chain plates, bearing rollers, engineering machinery components, hardware tools, and powder metallurgy industries.
KR228(H)	180	95	20.0-30.0	50-80	Quenching of gears, gear shafts, molds, spring pads, connecting rods and other workpieces made of medium and low-carbon alloy steel, carburized steel, die steel, and spring steel.
KR-H28Y/B	180	95	20.0-30.0	50-80	Engineering machinery components and ordinary quenched & tempered parts.
KR238(H)	190	85	28.0-40.0	50-90	Bright quenching of electric tool parts, oil pumps, oil nozzles, pre-stressed clamps, automotive synchronizer powder metallurgy parts, and gears.
KR238J	180	95	35.0-44.0	50-90	Meets Chinese National Military Standard GJB509B.

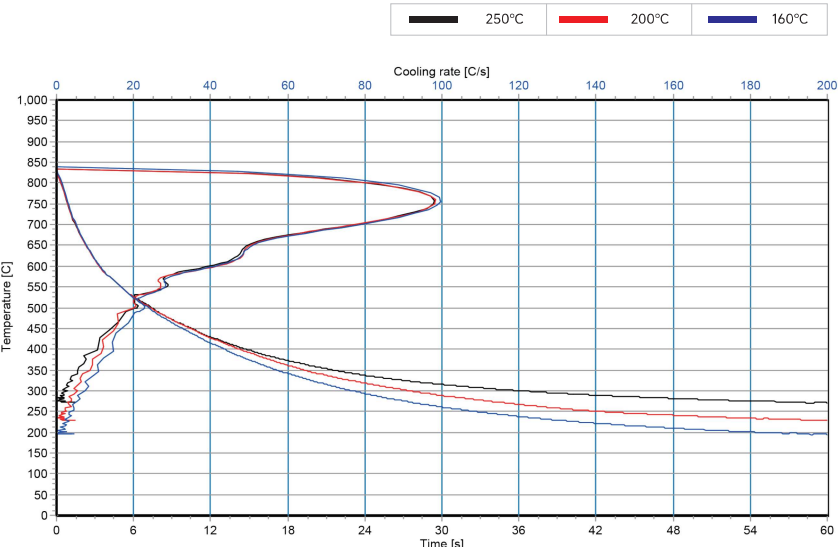
FAST BRIGHT QUENCHING OIL

Model	Flash Point (°C)	Max Cooling Rate (°C/s, 100 °C)	Kinematic Visc. (40°C,mm²/s)	Temp. °C	Typical Application
KR468(H)	230	85	65	80-100(Open) 100-120(Closed)	Quenching of medium and small-sized workpieces with high deformation requirements. Applicable materials: Medium and low-carbon alloy steel..... For multi-purpose furnaces, pusher furnaces, and mesh belt furnaces.
KR488(H)	230	80	80	80-100(Open) 100-120(Closed)	
KR498	240	78	95	90-100(Open) 100-140(Closed)	
KR098	230	70	70	90-100(Open)	For the wear-resistant steel ball industry. For rotary hearth furnaces, continuous furnaces, and open oil tanks.
KR4188	240	77	115	100-110(Open) 110-150(Closed)	Quenching of small-sized workpieces with very high deformation requirements. Applicable materials: Medium and low-carbon alloy steel..... For multi-purpose furnaces, pusher furnaces, and mesh belt furnaces.
KR4288	255	75	165	100-120(Open) 120-150(Closed)	
KR4488	275	70	300	100-160(Closed)	

MOLTEN SALT QUENCHANT

Model	Melting Point (°C)	Cl ⁻ (wt%)	SO ₄ ²⁻ (wt%)	Ca ²⁺ +Mg ²⁺ +Fe (wt%)	Water Insoluble (wt%)	Water Content (wt%)	Composition (Mass Ratio)
KR1129	135-145	0.03	0.03	0.03	0.03	0.5	KNO ₃ :NaNO ₂ =50:50
KR1139	135-145	0.03	0.03	0.03	0.03	0.5	KNO ₃ :NaNO ₂ =55:45

Typical Cooling Curve of Salt Bath Quenching Medium (Anhydrous, Static Conditions)



SPECIAL OIL

Type	Model	 Flash Point (°C)	 Max Cooling Rate (°C/s)	 Kinematic Visc. (40°C, mm²/s)	 Kinematic Visc. (100°C, mm²/s)	 Temp. °C	 Typical Application
Gear-specific Quenching Oil	KR228C	180	100 (60 °C)	20.0–30.0	—	50–80	Large synchronizer and transmission gears.
	KR468C(H)	205	95 (100 °C)	40.0–60.0	—	70–90 (Open) 80–110 (Closed)	Medium/light automotive gears, motor-cycle gears, miniature gears, synchronizer gears, and transmission gears.
	KR498C	240	80 (100 °C)	95 (Typical)	8.0–13.0	90–100 (Open) 100–140 (Closed)	Small and miniature gears with high deformation requirements.
Bear-ing-specific Quenching Oil	KR028G	180	100 (60 °C)	20.0–30.0	—	40–80	GCr15 and GCr15SiMn bearing rings and rolling elements.
	KR038G	200	67 (60 °C)	30.0–40.0	—	60–90	Thin-walled bearings and small bearing rings with high deformation requirements.
	KR048G	190	90 (60 °C)	30.0–45.0	—	60–90	Medium-sized bearing rings and rollers.
	KR468G	220	85 (100 °C)	55 (Typical)	6.0–9.0	70–100	General bearing rings and rollers (high versatility).
	KR488G	220	75 (100 °C)	65 (Typical)	6.5–9.5	70–100	Small/medium bearing rings and small rollers.
	KR498G	240	75 (100 °C)	90 (Typical)	8.0–13.0	90–100 (Open) 100–140 (Closed)	Small bearing rings with high deformation requirements.
Sealing Oil	KR035V	280	—	—	20.0–30.0	≤180	Sealing for pit-type carburizing furnaces.
Tempering Oil	KR535	290	—	—	25.0–40.0	160–240	Workpiece tempering.

VACUUM QUENCHING OIL

Model	 Flash Point (°C)	 Max Cooling Rate (°C/s)	 Kinematic Visc. (40°C, mm²/s)	 Temp. °C	 Typical Application
KR328	190	100 (60 °C)	20.0–30.0	50–80	Large dies (Cr12, Cr12MoV, H13, 6542, W18Cr4V) – Vacuum quenching.
KR348	210	92 (60 °C)	35.0–45.0	50–90	Medium dies (Cr12, Cr12MoV, H13, 6542, W18Cr4V) – Vacuum quenching.
KR368	220	85 (100 °C)	45.0–60.0	50–100	Small dies (Cr12, Cr12MoV, H13, 6542, W18Cr4V) – Vacuum quenching.

BLACKENING AGENT

Model	 Density	 pH Value	 Conc %	 Temp. °C	 Typical Application
PR506	1.02–1.07	8.0–9.5	10–20	400–520	Matte type, thin film, ideal for high-dimensional accuracy products requiring blackening.
PR507	1.02–1.07	8.0–9.5	8–15	350–500	Bright type, suitable for small-sized and difficult-to-blacken products (such as pads, anchors, etc.).
PR508	1.02–1.07	8.0–10.0	10–15	400–500	Matte type, suitable for blackening using residual heat after quenching.
PR520	1.00–1.07	8.0–9.5	10–15	380–550	Matte type, wide application range and strong anti-contamination ability.



ANTI-CARBURIZING COATING

Model	 Max. Coat. Thk. (mm) ≤	 Temperature (°C)	 Removal Method	 Typical Application
KR-AC03L	6.0	880–950	Shot / Sand Blasting	Large or partial anti-carburizing for gears, shafts, and carbonitriding parts.
KR-AC03L-A	2.0	880–950	Shot / Sand Blasting	Moderate viscosity, fine particles. Ideal for local anti-carburizing on shafts and gears. Supports automatic spraying.
KR-AC03L-B	2.0	880–950	Shot / Sand Blasting	Low viscosity, fine particles. Ideal for local anti-carburizing on shafts and gears. Supports automatic spraying.

GREENEST

ECO-FRIENDLY
CUTTING FLUID ADVOCATE

MACHINING

As a leader in vegetable oil-based cutting technology, Kerun is dedicated to developing and applying advanced metal cutting and forming products. Through continuous innovation in metalworking and forming processes, Kerun has established a leading position in metalworking fluids and chemical management systems. We focus on delivering stable performance while significantly reducing operating costs, minimizing environmental impact, protecting worker health, and enhancing overall production efficiency.

1

VEGETABLE OIL-BASED

Vegetable oil-based, mineral oil-free, safe and eco-friendly.
Excellent lubrication and cooling, protects tools and improves surface quality.
Wide application for aluminum and other metals.
Strong tramp oil resistance, easy to remove floating oil.
Low foam, low odor, excellent anti-rust even at low concentrations.

2

FULLY SYNTHETIC

Good chip settling, compatible with various filtration systems.
Superior anti-rust for ferrous metals.
Does not emulsify tramp oil, easy tank cleaning.
Excellent biological stability, inhibits microbial growth.

3

UNIVERSAL TYPE

Broad applicability for ferrous and non-ferrous metals.
Good anti-rust at low concentrations.
Biodegradable with low environmental impact.
Free of chlorine, triazine, nitrites, and phenols - human-friendly.

4

CUTTING OIL

Formulated with premium base oils and eco-friendly EP additives.
Low mist, low odor, excellent chip removal.
Improves machining quality and extends tool life.

5

FORMING OIL

Fast heat dissipation with unique lubrication.
Excellent extreme pressure performance, prevents sticking, extends die life.
Superior lubrication for brighter surfaces and higher precision.
Good short-term anti-rust protection.

VEGETABLE OIL-BASED

Model	 Conc %	 Features	 Typical Application
KR-C8820	3-10	Vegetable oil-based eco-friendly Excellent lubrication Good biodegradability Reduces waste treatment cost Improves machining environment	Various cutting processes of ferrous metals and most non-ferrous metals.
KR-C8821			Various cutting processes of aluminum alloy materials.
KR-C8822			Various cutting processes of cast iron, carbon steel, alloy steel and other ferrous metals.

Note: As a leading metalworking fluid brand in the industry, we have pioneered vegetable oil-based cutting fluid technology. Kerun vegetable oil-based cutting fluids offer superior lubrication performance and excellent biodegradability. While ensuring machining quality, their service life is comparable to traditional mineral oil-based cutting fluids.

FULLY SYNTHETIC

Model	 Conc %	 Features	 Typical Application
KR-C9010G	3-10	Biological Stability Type Excellent cleaning & anti-rust performance Low foam Strong tramp oil resistance	Ferrous metal grinding.
KR-C9020G			Bearing & roll grinding; also for low-carbon steel cutting.
KR-C9023G			Heavy-duty grinding (slotting, hobbing) of ferrous metals; excellent anti-wear, suitable for hard alloy grinding.
KR-C9030G			Especially for bearing grinding and gear end-face grinding.
KR-C9040G			Especially for shaft & gear grinding with high anti-rust requirements.
KR-C9020			Cast iron & carbon steel grinding/cutting.
KR-C9080			Neutral fully synthetic, easy to clean; ideal for aluminum alloy cutting requiring high cleanliness.
KR-C9090			Especially for die-cast magnesium alloys (AZ91D, AM60B).

UNIVERSAL TYPE

Type	Model	 Conc %	 Features	 Typical Application
General Purpose for Aerospace & EV	KR-C8930XH	8-15	Biological Stability Type Excellent metal protection Boron-free, Halogen-free, Formaldehyde-free	Cutting of precision EV parts, aerospace aluminum, bimetal, and titanium alloys
	KR-C8940XH	8-15		Medium to heavy-duty aluminum alloy machining in aerospace with high requirements for anti-rust, lubrication, and cooling
	KR-C8950XH	8-15		Medium to heavy-duty machining of EV precision parts, aerospace die-cast aluminum, forged aluminum, and titanium alloys
Aluminum Alloy	KR-C8030	5-15	Excellent lubrication Biological stability	High-lubrication cutting of common aluminum alloys (ADC12, 6061, etc.)
	KR-C8023	5-15	Biological stability Excellent anti-corrosion	Medium-load cutting of various aluminum alloy parts
	KR-C8020E	5-15	Excellent lubrication Biological stability	Cutting of automotive precision aluminum parts, especially where high lubrication is required
Magnesium Alloy	KR-C8790	5-10	Excellent metal ion inhibition Hard water resistance	Machining of common magnesium alloys (AZ91D, AZ31B, AM60B, etc.) in automotive, 3C, and wheel sectors
	KR-C8799	5-10	Metal ion inhibition Biological stability Mg alloy anti-corrosion	
Ferrous Metal	KR-C8510	5-10	Biological stability Excellent anti-rust	Light to medium-load cutting/grinding of cast iron, carbon steel, and low-alloy steel; ideal for high anti-rust needs
	KR-C8510EP	5-10	Biological stability Excellent foam & settling	Various cutting of cast iron, carbon steel, and alloy steel; suitable for centralized systems with high environmental requirements
	KR-C8520	5-10	Biological stability Excellent lubrication	Medium-load cutting of most ferrous metals (cast iron, carbon steel, low-alloy steel)
	KR-C8550	5-10	Biological stability Excellent settling & foam control	Various cutting of ferrous metals; especially for high-pressure coolant systems
	KR-C8560	5-10	Biological stability Excellent lubrication	Various cutting of ferrous metals where high lubrication is required
	KR-C8560G	5-10	Biological stability Excellent settling & anti-wear	Grinding of cast iron, carbon steel, and alloy steel; especially suitable for camshaft and crankshaft grinding
General Purpose	KR-C8020	5-15	Excellent lubrication Excellent metal protection	Cutting of automotive precision parts, aerospace aluminum, bimetal, and titanium alloys; ideal for high lubrication needs
	KR-C8210	5-15	Excellent lubrication Excellent foam & bacteria control	Cutting of automotive precision aluminum parts (cylinder head, valve body, etc.); ideal for high lubrication and low foam needs
	KR-C8026	5-15	Excellent cleaning Excellent metal protection	Cutting of automotive precision parts, aerospace aluminum, bimetal, and titanium alloys; strong cleaning power and good biological stability
	KR-C8211	5-15	Excellent lubrication Excellent metal protection	Cutting of automotive precision parts, ferrous metals, and aluminum alloys; especially for high foam control requirements

CUTTING OIL

Type	Model	 Flash Point(°C)	 Kinematic Visc. (40°C,mm²/s)	 Typical Application
Honing Oil	KR-C03N	120	3.5	Gear hobbing and shaping; also for cutting and grinding of copper, aluminum, and other non-ferrous metals.
SuperFinishing Oil	KR-C03	120	3.8	Superfinishing of bearing inner and outer ring raceways.
Tool Grinding Oil	KR-C05T	155	6.0	Outer diameter, groove, rake face, and edge grinding of carbide tools. Especially for multi-axis tool grinding with superior cleaning and cooling.
	KR-C07T	162	7.2	Outer diameter, groove, rake face, and edge grinding of carbide tools.
	KR-C07TH	160	7.0	Outer diameter, groove, rake face, and edge grinding of high-speed steel tools. Effectively reduces burn and improves grinding efficiency.
	KR-C05	160	7.0	Grinding of carbon steel, alloy steel, and titanium alloy.
Grinding Oil	KR-C10F	180	10.5	Forming grinding, worm grinding, leadscrew and nut thread grinding, partial gear forming, and worm grinding.
	KR-C10H	174	9.5	High-speed, high-feed gear grinding (e.g., new energy vehicle gears and wind power gears). Excellent filtration, ompatible with 10µm filter paper.
	KR-C10L	180	10.0	High-efficiency grinding of ferrous metals. Low odor, low mist, low sensitivity. Ideal for gears, crankshafts, and camshafts.
	KR-C15L	195	15.0	High-efficiency grinding of ferrous metals. Low odor, low mist, low sensitivity. Especially for large-modulus gears and spiral bevel gears.
	KR-C15H	200	15.0	
Cutting Oil	KR-C10M	185	10.5	Cutting of copper and aluminum non-ferrous metals. No material corrosion, extends tool life.
	KR-C15	190	13.0	Medium-load cutting of ferrous metals. Can be used for gear hobbing, gear shaping, and gear grinding. Also suitable for partial titanium alloy cutting and grinding.
	KR-C18	180	10.2	Heavy-duty machining of ferrous metals. Suitable for drilling, tapping, milling, and gear hobbing of carbon steel, alloy steel, titanium alloy, and high-temperature alloys.
	KR-C18H	180	18.5	Heavy-duty machining of ferrous metals. Chlorine-free cutting oil. Suitable for drawing, deep-hole drilling, gear rolling, and sawing of carbon steel, alloy steel, titanium alloy, and high-temperature alloys.
	KR-C22	200	22.0	Medium-load machining of ferrous metals (turning, milling, grinding, etc.). Also suitable for cutting of non-ferrous metals.
	KR-C22L	180	25.0	Heavy-duty machining of ferrous metals. Suitable for milling, drawing, deep-hole drilling, gear rolling, and sawing.
	KR-C32	210	31.5	Medium to heavy-duty machining of ferrous metals, such as gear hobbing, gear shaping, and gear milling. Features low oil mist, low odor, and low sensitivity.
	KR-C46	230	45.0	
	KR-C22F	210	26.0	
Tapping Oil	KR-C22F	210	26.0	Tapping and threading of ferrous metals. Also suitable for cutting.
MinimalQuantityLubricant	KR-MQL46	240	43.0	Minimum Quantity Lubrication (MQL) for internal and external cooling of ferrous and non-ferrous metals.

FORMING OIL

Type	Model	 Flash Point(°C)	 Kinematic Visc. (40°C,mm²/s)	 Typical Application
Thread Rolling Oil	KR-D40	200	35-45	Thread rolling and threading of fasteners; also for forming of non-ferrous metal parts
Forming Oil	KR-DT50	190	45-55	Cold drawing of high-surface-quality steel pipes, requires phosphating process
	KR-DT70	155	35-45	Cold drawing of high-surface-quality steel pipes, no phosphating required
	KR-D68	170	62-75	Forming of carbon steel fasteners with reduction ratio below 50%
	KR-D80	180	70-90	Forming of carbon steel fasteners with reduction ratio below 65%
	KR-D100	190	90-110	Forming of carbon steel fasteners (e.g., bolt heading, nut forming)
	KR-D120	190	110-130	Cold heading and warm forming of alloy steel and stainless steel fasteners; also for drawing of carbon steel fasteners
	KR-D320	200	300-350	Blanking, drawing, and punching of medium and thick iron sheets
Cold Heading Oil	PR-D100	170	90-110	Forming of standard fasteners (e.g., bolt heading, nut forming)
Stamping Oil	KR-DS02	60	1.1-1.7	Blanking and shallow drawing of thin sheets (carbon steel, copper, aluminum, silicon steel); low residue, no cleaning needed
	KR-DS05-1	70	3.0 ~ 5.0	Cleaning, stamping lubrication, and inter-process anti-rust; easy removal by
	KR-DS05-2	100	5.0 ~ 7.0	Cleaning, inter-process and long-term anti-rust of metal parts; easy removal by alkaline degreaser alkaline degreaser
	KR-DS10	150	8.0 ~ 10.0	Cleaning, stamping lubrication, and inter-process anti-rust; suitable for highspped stamping of outer panels; easy removal by alkaline degreaser
	KR-DS50	190	45.0 ~ 55.0	Stamping lubrication and inter-process anti-rust with stronger lubricity; suitable for complex structural parts; easy removal by alkaline degreaser
	KR-DS100	190	95.0 ~ 115.0	Precision stamping, punching, and deep drawing of black and stainless steel sheets under 2mm thickness
	KR-DS200	200	170.0 ~ 210.0	Precision stamping, punching, and deep drawing of black and stainless steel sheets 2-5mm thick

CLEANING & ANTI-RUST

Kerun is committed to creating value for customers, helping them improve quality, reduce costs, and increase efficiency. With over 20 years of practical experience in cleaning and rust prevention, Kerun has built a comprehensive application technology database across various industries. This enables us to quickly and effectively help customers solve cleaning and anti-rust challenges in production and processing.

1 CLEANING AGENT

Cleaning of metal parts of different materials
Cleaning of metal parts from room temperature to heated conditions
Cleaning of metal parts under medium to high pressure
VOC content meets GB 38508 limits
Combines cleaning, rust prevention, tramp oil resistance, low residue, and environmental protection
Uses high-quality stable raw materials, safe and eco-friendly
Does not easily form scale or corrode equipment

2 RUST INHIBITOR

Forms a transparent protective film, easy to clean
Excellent hard water resistance
Strong resistance to tramp oil and corrosion in tank solution
Nitrite-free, safe and environmentally friendly

3 ANTI RUST OIL

Low viscosity, thin oil film
Strong film adhesion with excellent anti-rust effect
Good fluidity, settling, and cleaning properties
Excellent neutralization and displacement ability for water and sweat

FERROUS METAL CLEANER

Model	Process	 pH Value(5%)	 Conc. %	 Temp. °C	 Typical Application
KR-F400	Spray	11.5-12.5	5.0 ~ 8.0	50 ~ 65	Phosphorus-free, strong oil-water separation, low foam, excellent-cleaning for medium/low-pressure spray before and after heat treatment.
KR-F400E	Spray	10.0-11.0	3.0 ~ 8.0	50 ~ 65	Phosphorus-free, strong cleaning, good oil-water separation for medium/low-pressure spray before and after heat treatment.
KR-F400H	Spray	9.5-10.5	5.0 ~ 8.0	55 ~ 65	Phosphorus-free, no inorganic salts, excellent cleaning, interprocess rust protection, low residue, strong tramp oil resistance for ferrous metals.
KR-F400M	Spray	12.0-13.0	3.0 ~ 8.0	60 ~ 65	Outstanding cleaning and tramp oil resistance for ultrasonic and spray cleaning of oil stains and black residue on ferrous metals.
KR-F400S	Spray	9.0-10.0	3.0 ~ 8.0	15 ~ 40	Excellent room-temperature cleaning and inter-process rust protection for medium/low-pressure spray on ferrous metals.
KR-F500	Spray	9.0-10.0	3.0 ~ 8.0	40 ~ 60	Low foam, excellent cleaning & anti-rust, tramp oil resistance for high-pressure spray on ferrous metals.
KR-F200	Spray	10.0-11.0	5.0 ~ 15.0	55 ~ 70	Excellent cleaning for high-viscosity quenching oil, good oil-water separation, sodium-free, low alkalinity, non-corrosive to equipment, nitrite-free.
KR-J	Soak	10.0-11.0	3.0-10.0	Ambient-80	Strong, economical, mild alkaline cleaner for heavy oil stains on ferrous metals — immersion, ultrasonic, or manual wiping.

NON-FERROUS METAL CLEANER

Model	Process	 pH Value(5%)	 Conc. %	 Temp. °C	 Typical Application
KR-V100	Soak	11.0 ~ 12.0	5.0 ~ 10.0	Ambient ~ 60	Excellent cleaning, prevents corrosion and discoloration of aluminum alloy parts. Ideal for ultrasonic, immersion, or manual wiping.
KR-V200	Spray	11.0-12.0	3.0 ~ 8.0	50 ~ 60	Low foam, outstanding cleaning. Ideal for ultrasonic and spray cleaning of aluminum alloy parts. Better rinsing effect with water after cleaning.
KR-V300	Spray	8.5 ~ 9.5	5.0 ~ 10.0	45 ~ 60	Low foam, inter-process rust protection, strong cleaning. Ideal for medium/low-pressure spray cleaning of ferrous metals and aluminum-mixed materials.
KR-V500	Spray	8.5 ~ 9.5	2.0 ~ 8.0	40 ~ 50	Low foam, low residue, excellent anti-corrosion on aluminum alloys. Ideal for high-pressure spray cleaning of aluminum alloys.
KR-V600	Spray	10.5 ~ 11.5	5.0 ~ 8.0	55 ~ 60	Low foam, provides cleaning and brightening effect on die-cast aluminum parts. Ideal for medium/low-pressure spray or ultrasonic-cleaning of aluminum alloy parts.
KR-T200	Ultrasonic/Spray	8.0-9.0	3.0-8.0	50-55	Low foam, meets spray cleaning foam requirements. Effectively prevents corrosion and discoloration of copper alloys.

DEGREASING POWDER

Model	Process	 pH(5%)	 Conc.%	 Temp. °C	 Typical Application
KR-L400	Soak	12.0 ~ 13.0	5.0 ~ 10.0	60 ~ 80	Ideal for immersion or ultrasonic cleaning of drawing and rolling oils in steel pipe production.

HYDRON CARBON CLEANING AGENT

Model	Process	 Distillation Range (°C)	 Flash Point (Closed, °°C)	 Temp. °C	 Typical Application
KR-R	Soak	185-215	70	Ambient	For immersion, manual wiping, and ultrasonic cleaning of oil contamination on metal surfaces.
KR-CH60	Vaccum	180-200	65	Ambient-60°C	Ideal for vacuum hydrocarbon and ultrasonic continuous cleaning machines. High flash point and high safety.
KR-CH80	Vaccum	200-220	85	Ambient-80°C	
KR-CH90	Vaccum	206-226	85	Ambient-80°C	

AQUEOUS RUST INHIBITOR

Model	 pH Value(5%)	 Conc.%	 Rust Proof (Days)	 Typical Application
KR-AOA190HT	10.0-11.0	3.0-8.0	1-5	Inter-process rust protection for ferrous metals. Can also be added to cleaning agents to enhance anti-rust performance. Low residue.
KR-AOA190	10.0-11.0	3.0-10.0	1-5	Inter-process and finished product rust protection for ferrous metals. Low residue, good compatibility with anti-rust oil. Can be used for inter-process rust protection before nitriding.
KR-AOA120	9.0 ~ 11.0	3.0-10.0	7	Inter-process rust protection for ferrous metals. Can also be added to cleaning agents to enhance anti-rust performance.
KR-AOA180PLUS	9.5-10.5	3.0-10.0	7-15	Inter-process rust protection for ferrous metals. Excellent anti-humidity and heat effect, good compatibility with cleaning agents.
KR-AOA181	9.5 ~ 10.5	10.0-20.0	15-30	Inter-process or finished product rust protection for ferrous metals. Can achieve partial oil-free rust protection.
KR-AOA180T	10.0 ~ 11.0	0.5-3.0	--	Short-term inter-process rust protection for ferrous metals. Can also be used as a special anti-rust additive for medium/low concentration PAG quenching fluids to improve rust prevention.
KR-AOA160	9.0-10.0	3.0-10.0	--	Strong aluminum anti-corrosion performance. Also provides inter-process rust protection for ferrous metals. Ideal for corrosion protection of aluminum alloy and ferrous metal mixed materials during inter-process.

ANTIRUST OIL

Type	Model	 Flash Point (°C)	 Kinematic Visc. (40°C,mm²/s)	 SST*(h)	 Rust Proof (Months)	 Typical Application
General Anti-Rust Oil	KR-AOE618	130	8.0-13.0	24	6-12	Inter-process or finished product rust protection for ferrous metals and powder metallurgy parts.
	KR-AOE658	130	19.0-23.0	72	6-12	Inter-process or finished product rust protection for ferrous metals.
Bearing Specific Anti-Rust Oil	KR-AOE668	130	7.0-13.0	48	6-12	Rust protection for bearing storage and sealing.
Electrostatic Spray Anti-Rust Oil	KR-AOE628S	150	18.0-34.0	24	3-9	Suitable for electrostatic spraying of cold-rolled sheet and cold-rolled strip steel.
Anti-Rust Lubricating Oil	KR-AOE850	150	14.0-20.0	48	6-12	Effectively controls friction coefficient and torque value of fasteners. Ideal for the fastener industry and other rust prevention fields requiring lubrication.
Long-Acting Anti-Rust Oil	KR-AOE990	160	30.0-45.0	96	12-15	Inter-process or long-term storage rust protection for ferrous metals.

* Note: The salt spray time is tested according to SH/T 0081 standard using No. 10 steel test pieces. Salt spray test related parameters: 35°C test temperature, 5% NaCl solution with pH 6.5-7.2, salt spray deposition 1.5 ml/h·80cm². The anti-rust period is valid under specified packaging and storage conditions: workpieces are clean, coated with rust preventive, sealed in rust-proof packaging, and stored indoors at room temperature (5-35°C) with humidity ≤65%.



SOLVENT-BASED RUST OIL

Type	Model	 Flash Point (°C)	 Kinematic Visc. (40°C, mm²/s)	 SST* (h)	 Rust Proof (Months)	 Typical Application
Water Cutting Agent	KR-AOD100	70	1.0-4.0	-	7(Days)	Excellent water displacement. Ensures final anti-rust effect after rinsing.
Water Displacing Anti-Rust Oil	KR-AOD150	70	1.5-2.8	24	3-6	Dehydration rust protection for steel and non-ferrous metals. Also for inter-process rust prevention.
Thin-Layer Fog Anti-Rust Oil	KR-AOD330	70	2.0-3.8	48	9-12	Good drainage. Ideal for inter-process or finished product rust protection of steel and non-ferrous metals.
	KR-AOD330PLUS	70	3.0-5.0	72	12-18	
	KR-AOD350	70	3.0-4.5	48	9-12	Outstanding rust protection, anti-emulsification, and drainage. Especially suitable for gears and bright steel tubes.
	KR-AOD550	70	3.5-5.0	72	9-18	Excellent salt spray resistance, suitable for marine climate. Ideal for sealed rust protection of ferrous and non-ferrous metals. Can also be used for inter-process and dehydration rust protection.
Bearing Anti-Rust Oil	KR-AOD360	70	3.0-6.0	48	12-15	Excellent rust protection, resists stacking marks and yellow spots. Good water displacement. Ideal for finished product rust protection of bearings and other parts.
Wax Film Anti-Rust Oil	KR-AOD380	70	1.5-3.0	24	6-12	Forms a stable thin wax film. Ideal for inter-process or short-term rust protection of steel and non-ferrous metals.
Friction-Reducing Anti-Rust Oil	KR-AOD830	70	5.0-8.0	72	12-15	Controls friction coefficient and torque of fasteners. Ideal for the fastener industry.

* Note: The salt spray time is tested according to SH/T 0081 standard using No. 10 steel test pieces.
Salt spray test related parameters: 35°C test temperature, 5% NaCl solution with pH 6.5-7.2, salt spray deposition 1.5 ml/h·80cm².
The anti-rust period is valid under specified packaging and storage conditions: workpieces are clean, coated with rust preventive, sealed in rust-proof packaging, and stored indoors at room temperature (5-35°C) with humidity ≤65%.



INDUSTRIAL OIL

In the industrial equipment oil sector, Kerun draws on its rich technical database and extensive multi-industry experience to deliver complete lubrication solutions. We provide not only stable, compatible, and highly corrosion-resistant oils, but also professional support across industrial planning, equipment, and coatings.

1 HYDRAULIC OIL

Excellent thermal oxidation stability, extends oil and equipment service life.
High cleanliness grade, effectively reduces the frequency of mechanical failures.
Superior anti-corrosion and water separation performance, prevents internal corrosion in hydraulic systems.
Outstanding anti-wear performance, effectively protects hydraulic components from wear.
Good air release and anti-foam properties, ideal for hydraulic systems.

2 ENCLOSED INDUSTRIAL OIL

Excellent extreme pressure and anti-wear performance, effectively prevents micro-pitting.
Good oil-water separation ability, enables rapid water-oil separation.
Superior anti-foaming properties, provides effective oil film protection, lubrication, and heat dissipation.
Excellent thermal stability and strong anti-oxidation ability, extends oil service life.
Outstanding rust and corrosion protection, effectively prevents component corrosion. Ideal for closed gear boxes.

3 SLIDEWAY OIL

Good anti-oxidation properties and thermal stability.
Rust and corrosion protection, maintains the bright surface finish of guide rails.
Excellent lubrication characteristics, eliminates stick-slip and vibration on guide rails, improves component precision.
Strong adhesion, prevents guide rail oil from being washed away, protects the guide rail surface.
Ideal for lubrication of guide rails on precision machine tools.

HYDRAULIC OIL

Model	 Viscosity Grade	 Viscosity Index	 Flash Point(°C)	 Foamability (mt 24 °C)	 Gear Test »	 Typical Application
KR-EX32(Ashless)	32	100	210	30/0	10	High-pressure hydraulic systems (precision machine tools, hydraulic equipment, mining & engineering machinery, etc.)
KR-EX46(Ashless)	46	100	234	30/0	10	
KR-EX68(Ashless)	68	100	245	30/0	10	
KR-EM32	32	95	210	30/0	10	
KR-EM46	46	95	224	30/0	10	
KR-EM68	68	95	240	30/0	10	

FIRE-RESISTANT HYDRAULIC OIL

Model	 Kinematic Visc. (40°C,mm²/s)	 Viscosity Index	 Flash Point (°C)	 Foamability (mt 24 °C)	 Anti-emulsify (54°C,mm²)	 Typical Application
KR-EFU46	46	180	310	50/0	30	Suitable for high-temperature and high-pressure hydraulic systems, such as continuous casting, electric furnaces, blast furnaces, coking, hot rolling, high-speed wire rod, diecasting machines, glass forming machines, and thermal power plants.
KR-EFU68	68	160	310	50/0	30	

FIRE-RESISTANT HYDRAULIC FLUID

Model	 Kinematic Visc. (40°C,mm²/s)	 Viscosity Index	 pH	 Foamability (mt 24 °C)	 Typical Application
科潤L-HFC46	46	180	8.5-10.5	50/0	Suitable for flammable and explosive hydraulic systems near fire sources, such as continuous casting machines, rolling mills, die-casting machines, metal extruders, and electric arc furnaces.

ENCLOSED INDUSTRIAL OIL

Model	 Kinematic Visc (40°C,mm²/s)	 Viscosity Index	 Flash Point (°C)	 Density (20°C,g/cm³)	 Typical Application
KR-EKD100	100.0	90	210	0.873	Specially designed for heavy load, impact, high temperature, and humid conditions. Suitable for closed industrial gear box lubrication in steel, cement, power, fertilizer, coal, and related industries.
KR-EKD150	150.0	90	220	0.875	
KR-EKD220	220.0	90	220	0.880	

SLIDEWAY OIL

Model	 Kinematic Visc (40°C,mm²/s)	 Flash Point (°C)	 Pour Point (°C)	 Copper Corrosion (100°C,3h)	 Typical Application
KR-ES68	68	210	-15	1a	Suitable for medium-load horizontal slideways of various machine tools such as lathes, grinding machines, boring machines, planers, and drilling machines.
KR-ES220	220	240	-10	1a	Suitable for heavy-load vertical slideways of large machine tools, machining centers, forging presses, die-casting machines, and other equipment.

FLUIDS SERVICE EQUIPMENT

In the equipment sector, Kerun leverages years of development experience and extensive expertise in industrial fluids to provide comprehensive solutions for customers across various industries. These solutions include fluid purification and monitoring, fluid recycling, low-temperature evaporative waste treatment systems, centralized filtration systems, and centralized chip processing systems. Kerun upholds a commitment to eco-friendly practices, delivering economic value to customer while contributing to the nation's environmental sustainability.

CENTRIFUGAL AUTOMATIC DESLUDGER

Using vertical centrifugal filtration with scraper discharge, this system efficiently separates solid waste from production oils in a dry form, without consumables and with low moisture sludge. Ideal for grinding oils, bearing oils, cold heading oils, automotive coating wastewater, glass, and ceramic processing.

Precision Filtration and Separation

Effective for simple filtration, recovery, and dehydration of micron-level particles in industrial water and oil.

Reduced Pollution, Improved Quality

Prevents blockages, extends tool life, and enhances product quality.

No Extra Consumables

Simple design filters all types of oils without filters, cloth, or paper.

CAPABILITY: 40L/min



CENTRIFUGAL OIL PURIFIER

The Fixed Centrifugal Oil Purification System (KR-COP600) includes a centrifuge, basket filter, oil transfer system, control system, and mobile cleaning device. Positioned above the oil tank, it extracts quenching oil, filters it, and returns it to the tank with nitrogen assistance. Bypass pipeline design ensures continuous operation.

- Bypass design allows uninterrupted operation.
- Real-time filtration extends oil lifespan.
- Simple, hands-free operation with easy maintenance.

POWER: 3kw **CONTAMINANT CAPACITY:** 3.33
CAPACITY: 5m³/h **FILTRATION PRECISION:** 2um



SPLIT-TYPE TANK QUICK CLEANER

Split-Type Tank Quick Cleaner (KR-ETC300B) is designed for machine shops to clean CNC sump tanks by removing sludge, oil residues, metal particles, and deposits. It separates impurities from the coolant, thoroughly cleans the tank, and serves as an ideal eco-friendly tool for machining operations.

- Removes sludge and impurities with 10-micron filtration
- Deodorizing and sterilizing functions included
- Mobile cart for easy debris disposal
- High-pressure washing capability
- Fast inflow/outflow for simultaneous suction and discharge

SUCTION FLOW RATE: 200 L/min

DISCHARGE FLOW RATE: 2000 L/h



INTEGRATED CUTTING FLUID PURIFIER

The Integrated Cutting Fluid Purifier (KR-IPE300B) is designed for purifying water-based cutting fluids and cleaning agents by removing floating oil, killing bacteria, deodorizing, and filtering solid particles. It extends the service life of cutting fluids and cleaning agents, reduces waste discharge, lowers usage and disposal costs, and improves the quality of processed parts.



Deodorizing
Sterilizing



Oil Removal Rate
(up to 99%)



Capacity
(200~600L/h)



Centrifugal Precision
(0.001mm~1mm)



MOLTEN SALT FILTER

The Molten Salt Filter is a mechanical pressure filtration device used to purify molten salt. It operates by allowing high-temperature molten salt to flow in through the inlet, pass through the filter screen, and exit through the outlet, with impurities being trapped in the storage chamber. The filter screen effectively removes suspended particles and viscous impurities from the molten salt, ensuring its purity.

Operating Temperature: 180~200

Working Principle: Physical Filtration

Slag Discharge Method: Manual

Filtration Capacity: 200L/min

Filtration Precision: 5um

Design Pressure: 10 Bar



PRECISION POLISHING-FILTER

A precision filter efficiently removes particles, oxides, and water from oils to enhance purity. Under pressure, oil flows through treated paper filter cartridges, where contaminants are trapped, allowing clean oil to pass through.

- Enhances oil quality
- Reduces maintenance costs
- Boosts operational efficiency and ensures equipment safety
- Eco-friendly and cost-saving

PRECISION: 0.8/3/7/10um

OPTIONAL SINGLE FILTER CARTRIDGE WATER ABSORPTION: 2 L

CONTAMINANT CAPACITY: 4kg



SMART QUENCHANT TESTER

The KR-SQT III is Kerun's third-generation Smart Cooling Characteristic Tester, designed for assessing quenching media cooling properties. It provides detailed data and curve analysis, enabling efficient data collection and analysis on-site, supporting optimal operations for heat treatment facilities and research institutes.

- Wireless data transmission between handle and main unit
- Wired data transmission customization available for military industry
- Supports up to 4 handles connected to a single main unit
- Printer connection for curve data printing from main unit
- Mobile app for curve data display



OIL/FLUID ONLINE MONITORING

The online monitoring system enables visualization, systematic management, and data-driven oversight for real-time performance monitoring of machining fluids. It assists on-site engineering staff in operational decision-making, enhances the user experience with fluid usage, reduces maintenance challenges, and improves the quality of product machining.

- Real-time monitoring of fluid usage for full visibility
- Increases production efficiency, reducing unexpected downtime
- Lowers maintenance costs
- Extends fluid lifespan, reducing waste and emissions
- Minimizes quality risks associated with fluid issues

OIL PROPERTIES: Viscosity, Water Content, Conductivity, Temperature, Dielectric Constant

PROCESSING FLUID: Concentration, Conductivity, pH, Temperature



WASTE EVAPORATION TREATMENT SYSTEM

Waste evaporation treatment system uses heat pump compression to lower the pressure within the evaporator, increasing vacuum levels, reducing the liquid boiling point, and thus accelerating evaporation. The system heats the material with a heat medium, causing moisture in the material to evaporate. The rising vapor is then cooled by a refrigerant, condensing it into water.

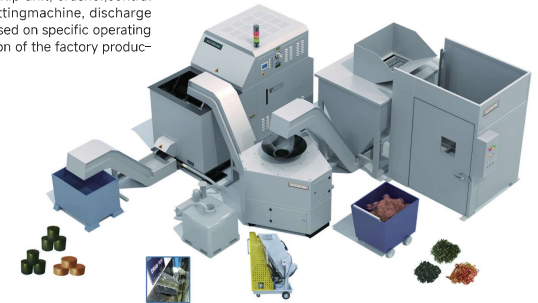
- Low energy consumption, with 220-160 kWh per ton of waste treated
- Low 35°C evaporation temperature, stable water quality, minimal scaling
- 90% waste concentration rate, 99% COD removal efficiency
- Stable system operation, easy maintenance
- No consumables, no new pollutants generated
- No need for dedicated monitoring; remote monitoring available for user



CENTRALIZED CHIP PROCESS SYSTEM

Centralized chip process system consists of a lift and flip unit, crusher, central storage bin, chip conveyor, automatic de-oiler, briquetting machine, discharge unit, and filtration unit. Equipment can be customized based on specific operating conditions and automation needs, enabling full automation of the factory production line.

- Increase oil recovery rate
Reduce waste
- Enhance facility space efficiency
Easier storage and transport
- Intelligent automation
Improves the environment efficiency
- Processed iron filings can be treated
as general solid waste Reducing disposal costs.



RECOVER RATE: 95%

CAPACITY: 30KG/H-4000 KG/H

RESIDUAL LIQUID RATE: 2%-5%

ENERGY SAVING RATE: 30%

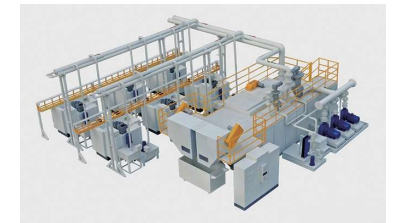
BRIQUETTE DENSITY: 1.8-6g/cm³

CENTRALIZED FILTRATION SYSTEM

The Centralized Filtration System is designed for cutting fluids, grinding fluids/oils, and cold-heading oils, replacing single-machine filtration with centralized, continuous filtration. This setup enhances fluid stability, extends its lifespan, and improves management efficiency by addressing maintenance, leakage, and fluid consistency challenges.

Kerun customizes solutions based on fluid type, contamination, precision, and facility layout for optimal filtration and supply.

- Centralized filtration and maintenance, saving space and labor
- Ensures fluid concentration and pressure for processing needs
- Extends fluid lifespan



LUBRICANTS MANAGEMENT SERVICE

Industrial fluids are essential in machinery manufacturing, acting as a lever to reduce costs and increase efficiency—**Directly impacting net profits.**

Many companies still have room to improve in fluid selection, maintenance, and cost-effectiveness. Kerun's "Fluid Steward" service provides targeted support to help customers achieve high-quality growth.



A transmission company with an annual output of 400 million yuan and a fluid procurement budget of 15 million yuan faced waste, conflicts between fluids, and maintenance-related quality issues across 60+ fluid types from over 10 suppliers. Since implementing Kerun's Fluid Steward System in 2019, the company has reduced annual fluid costs to 12 million yuan and decreased production stoppages and quality issues by 50%.

MAIN EFFECT

- Ensure safe, eco-friendly chemical selection
- Design and build a chemical monitoring system & lab
- Establish inventory management protocols
- Provide expert training and consulting
- Prepare emergency plans for chemical handling
- Extend chemical lifespan
- Effective waste management, reducing emissions
- Manage costs, technical data, and inventory

CORE VALUE

- Improving cutting/grinding fluid allergy issues
- Water based product management for longevity
- Quenching oil selection and process optimization
- Enhancing cutting/grinding quality
- Extending cleaning agent lifespan
- Rust prevention improvement research
- Optimizing wastewater treatment for cost reduction
- Better product quality with lower overall costs

Extensive product range and strong brand presence in niche sectors

Kerun products are widely applied across industries, including aerospace, automotive, wind energy, marine, oil, home appliances, mining machinery, and steel metallurgy. With over 3,000 industrial customers served, we provide comprehensive solutions tailored to each field. Our long-standing service has built a wealth of customer and application technology resources.



100 Patents, 25 Authorized Inventions, Drafted More Than 20 National And Industry Standards

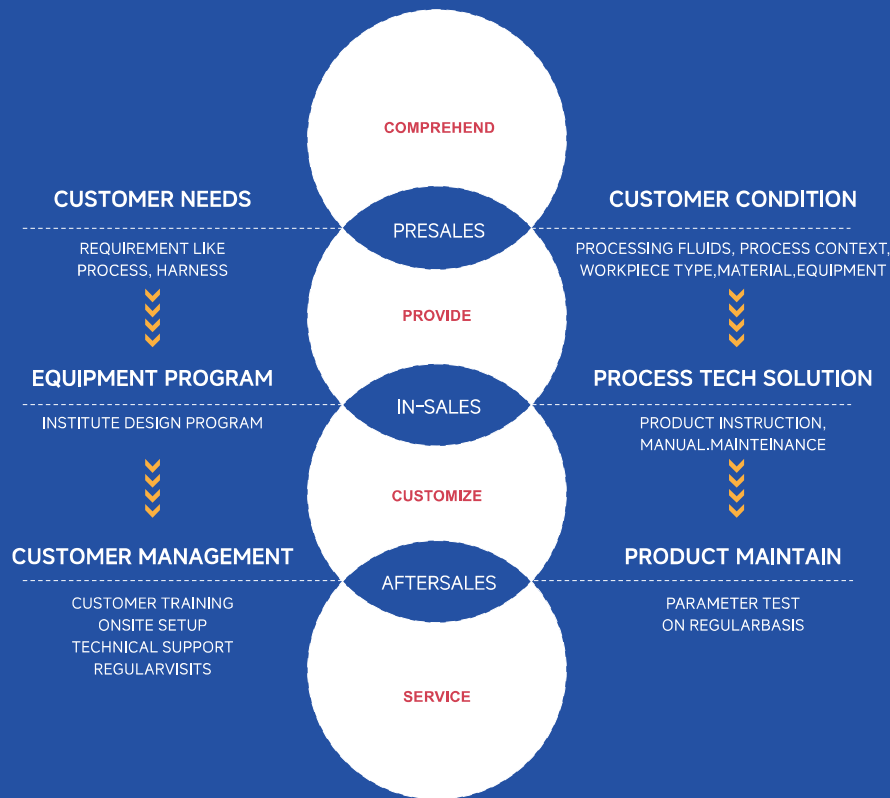
For over 20 years, the Kerun Industrial Fluids Research Institute has developed more than 300 products and led the creation of over 20 national and industry standards, establishing a national postdoctoral research station. Kerun continuously enhances its technical strengths in industrial fluids, aligning with customers' needs for sustainable manufacturing. Through constant innovation, Kerun drives the industry's green and

Providing Comprehensive Solutions for Customers

With the rapid advancement of technology in industrial manufacturing, industries face increasing market competition and shifting customer demands, with specialization becoming more defined. Kerun delivers integrated solutions across various sectors, helping partners tackle industry challenges, accelerate productivity, and focus on core competencies—enabling them to achieve development goals more efficiently, effectively, and

KERUN CPCS SYSTEM

Drawing on extensive application experience with over 3,000 customers across diverse industries, we have meticulously developed the Kerun CPCS system. This system delivers customized products and professional solutions tailored to each client's unique needs, ensuring a seamless integration of product and process excellence.



We offer not only high-quality, reliable industrial fluids but also comprehensive management services.

From procurement, storage, inventory control, on-site maintenance, quality assurance, recycling, waste handling, to a healthy work environment, we aim to maximize production efficiency and reduce costs, embodying our commitment to creating value for customers and society.

- Quality Management Covers selection, dosing, testing, maintenance, recycling, and waste handling of your chemicals.
- Cost Control: Operates within agreed cost levels, sharing savings with customers.
- Business Support Plan: Includes procurement, inventory, and materials management.
- Value-Added Services: Training, technical support, and process optimization.



KERUN SYSTEMATIC SOLUTION

As industrial manufacturing technology advances, industries face increasing competition and rapidly changing customer demands, with specialization and division of labor becoming more distinct. Kerun offers comprehensive solutions across various sectors, helping partners meet industry challenges, accelerate productivity, focus on core competencies, and achieve growth goals more easily, quickly, and economically.

FLUIDS+ SERVICE EQUIPEMENT

01. Centralized filtration system for machine tool coolant
02. Metal chip transport/separations system
03. Coolant recycling equipment
04. Oil-water separation equipment
05. Cleaning equipment
06. Oil mist purification system
07. Minimum quantity lubrication
08. (MQL) equipment
09. 08 Automatic mixing system

TESTING EQUIPEMENT

01. Handheld Refractometer
02. Titration Equipment
03. pH Testing Equipment
04. Bacteria Colony Detection Equipment
05. Lubrication Per formance Testing Equipment

Design and Development of Machining Industry Systems

01. Machining Layout Design
02. Centralized Fluid Supply System Design
03. Centralized Waste Treatment and Environmental System Design

METAL PROCESS FLUIDS

01. Cutting fluids
02. Forming fluids
03. Cleaning and anti-rust fluids

PARTNERS

Kerun values every collaboration with you!

we not only provide quality products but also actively address any challenges you face.

Kerun works alongside you, offering tailored solutions and innovative technology.

For over twenty years, Kerun has journeyed with you through ups and downs, growing together.

Kerun is not just your supplier but a trusted partner by your side.



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KERUN 一直在您身边
ECS Industrial Fluids
ALWAYS WITH YOU