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Surface Checking

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

> Welding Spatter Antifouling Agent Welding Support

Groove Antirust Spray

Joining Parts reatment Agent

Micro Check

[Features]

- •Micro Check is a one-touch aerosol spray of flaw detection agent which don't require any special equipment to be used.
- •Tiny cracks and invisible flaws can be easily and accurately detected.
- •It can be used everywhere no matter what material the applied objects are made of or what shapes the applied objects have (expect painted surfaces and plastics).
- •Being non-corrosive, it can be safety used to aluminum alloy, magnesium alloy, etc.
- •Possible to detect flaws and cracks at 0°C to 80°C.
- •The detectability is width 1 μ m and depth 10 μ m. (10 $^{\circ}$ C \sim 50 $^{\circ}$ C)

[Application]

Lubricant

Food

Machinery

Anticorrosive

/Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould

Releasing

Spray

One-liquid Zinc-rich

Primer Spray

Stainless Steel

Surface Treatment

Welding Spatter Antifouling Agent

/Welding Support

Product

Groove Antirust Spray

Joining Parts

Treatment Agent

The range of application is limitless; from metals, regardless of whether it is ferrous, nonferrous, magnetic or non-magnetic, to non-metals such as ceramics, glass, etc.

- 1) Cast parts—pin holes, folds due to hot water, cracks due to shrinkage.
- 2) Forged parts—-cracks due to forging.
- 3) Welded point—cracks, cavity, and defective joints.
- 4) Metal fatigues——Cracks due to grinding, cracks due to backing, cracks due to cutting tools.
- Leakage-—-tanks, boilers, pipes and others.
- Seals---test of heat seal packages.





Crack detection test at heat seal package.

Micro Check Cleaner





[Performance]

	Applicable temperature		0~60℃
I	Item No	Product Name	Volumetric capacity•Packing
	000141	Micro Check Cleaner	420ml x 24pcs
	000142	Micro Check Cleaner 18L	18L x 1can

Outward Appearance Colorless Transparent Liquid

Micro Check Penetration



Red Liquid



[Performance] Outward Appearance

Applicable temperature		0~80℃
Item No	Product Name	Volumetric capacity•Packing
000143	Micro Check Penetration	420ml x 24pcs
000144	Micro Check Penetration 18L	18L x 1can

Micro Check Development





[Performance]



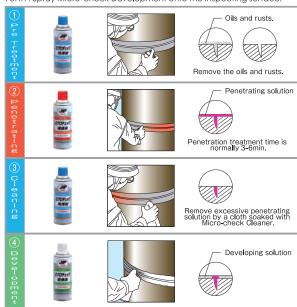
	0,1
Outward Appearance (After Dry)	White Powder Coat
Applicable temperature	0~50℃
Itam No. Braduat Nama	Valumatria aggazitu. Baqiria

000145	Micro Check Development	420ml x 24pcs
000146	Micro Check Development 18L	18L x 1can

[How to use]

It consists of following four steps
First: Clean the inspecting surface with Micro-check Cleaner
Second: Spray on the inspecting surface with Micro-check Penetration
Third: Remove excessive Micro-check Penetration by a cloth soaked with
Micro-check Cleaner.

Forth: Spray Micro-check Development onto the inspecting surface.



Micro Check 6P Set



- Set Contents
- ■Microcheck Cleaner x 3 pcs
- ■Microcheck Penetration x 1 r ■Microcheck Development x 2

pc	000147	Micro Check	420ml x 24pcs
2 pcs		6P SET	(4boxes x 6pcs)

Micro Check 4P Set



- Set Contents
- ■Microcheck Cleaner x 2 pcs
- ■Microcheck Penetration x 1 pc 420ml x 24pcs 000148 Micro Check ■Microcheck Development x 1 pc

Water Washable Micro Check Penetration 18L







Removable by water

[Performance]

024392	Water Washable	18L v 1nc
Item No	Product Name	Volumetric capacity Packing
Applicable temperature		0~80°C
Outward	Appearance	Rea Liquia

024392	Water Washable Micro Check Penetration 18L	18L x 1pc

Leak Foamer/NK Foamer







[Features]

- •Easily detects gas leakage by creating bubble. Bubbling even slight "leakage"
 •Non-flammable and no risk by chemical reactions
 •Cleared the JIS-Z2329 (Methods for bubble leak testing) foaming at a 30µm hole, under 4-5x103Pa differential pressure.
 •Neutral type

[Application]

- Applicable to various gas piping, welded joint part of equipment and connecting parts.
 For detect refrigerant gas leakage from pipe jointing parts of machines such as air-conditioner and refrigerator.
 For detect gas leakage of town gas, propane gas, gas of industrial pipes and containers.
 Gas Leakage check for pneumatic brake piping of automobile.

- automobile.

[Performance]

Outward Appearance	Colorless Transparent Liquid
Applicable temperature	Normal temperature



Bubble Leak Testing (JIS-Z2329)

025240	Leak Foamer	345g x 24pcs
023362	NK Foamer	15kgs x 1can

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling

Mould Releasing Spray

Zinc-rich Primer Spray

Treatment Welding Spatter Antifouling Agent

Joining Parts

Water Leak Check

Water leak detection

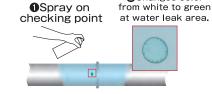
[Features]

- Easily detects water leakage.
 Change the color of white coat film layer to green, if water is leaking.
 Removable by water

[Application]

•Leak detection for hydraulic test of tanks. •Leak detection for pipes and coutainers.





Item No		
000612	Water Leak Check	420ml x 24pcs

Oil Leak Check

Oil leak detection



[Features]

- Easily detects oil leakage by making a visible white color film.
 Absorbing oil, detects oil leakage without pressurization.
 It doesn't soil inside part for the outside application.
 It is possible remove using water

[Application]

- Leak check for welded part or welded joint of various oil pipe. (Rubber hose is also available).

 Applicable to welded part or welded joint of various oil tank.
 Detects oil leaking from joint part of automobile oil pan or brake hose pipe, etc.

[Performance]

Outward Appearance (after dry)	
Applicable temperature	0~50℃



000659	Oil Leak Check	150ml x 12pcs

Changes color





Varnish

One-liquid

Stainless Steel Surface

/Welding Support Product

Groove Antirust Spray

Treatment Agent

Super Peneton

Full Penetration - High Pressure Lubricant











Water Replacement







Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich **Primer Spray**

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

[Features]

- It is a penetrating lubricant that can be used for many purposes such as thread unscrewing, lubrication, rust prevention, etc., emphasizing its excellent permeability compared to conventional lubricants. Makes it easy to replace rusted bolts
- that are firmly fixed.

 It has excellent pressure performance. Improves lubrication performance by blending with PTFE (fluoroplastic).

 Due to its water displacing properties, it removes moisture and forms a long-term rust-proof film.

 Spraying can be done remotely using spot spraying.

 Can be sprayed 360 degrees, can be upside down to spray

[Applications]

- Used as a solution for unscrewing, bolts and nuts.
 Lubricates rubbing surfaces of cars, motorcycles, bicycles, etc.
 Prevents rust and lubricates each type of equipment and parts.

[Performance]

-	
Welding Load	4903N
Copper Strip Corrosion Test	1a (100℃ x 1 hr)
Kinematic Viscosity (40°C)	2.02
Operating Temperature	-10~130℃



Item No	Product Name	Packing Volume	Packing Quantity
000999	Super Peneton	400 mL	24 Cans (12 Cans x 2 Boxes)

• Class 4 Type of oil Class 2, 400 mL, Hazard level 3

Peneton A











Odorless





Rust proof penetrating oil for equipment.

[Features]

- Without unpleasant smell since it is odorless. Adopts 2-way nozzle, bottom up spray is available.

 Rust proof effect is higher than other penetrating oil because of improved anti-rust formula.

 Penetrates rapidly into corroded metal surface. Activates on base metal under the rusty layer while lubricating the metal.

 Prevents rusting by water replacement.

 At an amazing speed, loosens binding screws, nuts etc., caused by rust.

 Solve the disconnection problem of electric system caused by moisture.

- •Doesn't contain silicone oil.

[Applications]

- Loosens binding crews, nuts, etc. caused by rust or seizure.
 For anti-rust or lubricating metal ware.

[Performance]

Salt spray test	Over 72 hours
Indoor rust proof	Over 12 months
Weld Load	981N
Heat Resistance	120 ℃
Kinematic Viscosity(40°C)	9cSt (for reference only)
Applicable temperature	-10℃~130℃



Item No	Product Name	Volumetric capacity Packing
000105	Peneton A	420ml x 24pcs
000605	Peneton A 18L	18L x 1can

Rust proof penetrating oil for equipment.















- Without unpleasant smell since it is odorless. Adopts 2-way nozzle, bottom up spray is available.
 Has super high lubricating effect comparing with other products because of PTFE compounded.
 Penetrates rapidly into corroded metal surface. Activates on base metal under the rusty layer while lubricating the metal.
 At an amazing speed, loosens binding screws, nuts etc., caused by rust.

- by rust.Prevents rusting by water replacement.Doesn't contain silicone oil.

[Applications]

Loosens binding crews, nuts, etc. caused by rust or seizure.
 For anti-rust or lubricating metal ware.

[Performance]		
Salt spray test	Over 48 hours	
Indoor rust proof	Over 6 months	
Weld Load	1570N	
Heat Resistance	120 ℃	
Kinematic Viscosity(40°C)	9cSt (for reference only)	
Applicable temperature	-10℃~130℃	



Item No	Product Name	Volumetric capacity Packing
000530	PN55	420ml x 24pcs



Jet Lube

Mucous oil, high grade lubricating and rust preventing agent.







PRTR







[Features]

Provides long term lubricating, rust proof, corrosion proof effect because of strong adhesive properties of lubricating film.

Long –life lubrication and rust preventing agent with water displacing property, therefore, it forms strong oily film under water even if water covers on the surface.

Penetrates to narrow openings, doesn't soil surroundings because of little splashing.

[Applications]

Rust prevention and lubrication for metal ware, precision instruments, tools, moulds and metal work desk.

For manufacturing processes requiring extreme pressure, such as pressing and drilling works.
 For every kinds of bearings.

[Performance]

[
Weld Load	1570N	
Heat Resistance	120 ℃	
Kinematic Viscosity(40°C)	140cSt (for reference only)	
Applicable temperature	-10°C~150°C	



		Volumetric capacity Packing
000031	Jet Lube	300ml x 24pcs

Surface Checking Agent

Lubricant

Food

Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Releasing Spray One-liquid Zinc-rich

Mould

Primer Spray Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent

/Welding Support Product

> **Groove Antirust** Spray

Joining Parts Treatment Agent

Visco-Lube

High extreme-pressure and high-adhesive lubricating agent.

[Features]

- The lubricating film, which has strong adhesive, anticorrosive and anti-rust effect, protects the coated surface from water, acid or alkaline atmosphere.

 Strong against extreme-pressures and does not get blackened owing to MCA and BN (white solid lubricating agent) compounded.

 Different from Molybdenum, doesn't contaminate surroundings.

 High adherent with least splashing.

[Applications]

- Used for outer lubrication of heavy load, rotary part of all kind of construction machines and automatic warehouse.

 Applies to open gears, chains and wire ropes.

 Outer lubrication of all kinds of bearings.

[Performance]

Weld Load	1570N
Heat Resistance	300°C (Solid)
Kinematic Viscosity(40°C)	4000cSt (for reference only)
Applicable temperature	-10°C~150°C



Strong

Lubricating wire

Item No	Product Name	Volumetric capacity Packing
000106	Visco-Lube	330ml x 24pcs

Silicone Sliding Agent

Sliding and polishing agent.

[Features]

- Contains high penetrating silicone oil that offers quick sliding on complicated shapes of cutters.
 Non-solvent, don't stain fabric nor dissolve plastic.
 Harmless and odorless. Prevents cutters or machines from any

[Applications]

- For all blades, garment cutters, paper cutters, tables for book binding machines, woodworking machines and dry plates of various cutting machines.
 For polishing and sliding of printed materials.
 For lubricating rubber products.
 Coin sliding agent for vending machines.

[Performance]

Applicable tempera	ature	-50℃~200℃



Sliding cutting machine

Item No		
000135	Silicone Sliding Agent	420ml x 24pcs



High-Grade Grease

イグリース









2 Ways Bottom-Up Spray OK





Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

[Features]

 \bullet By dissolving heat-resistant (200°C), rust-preventing and lubricating grease in gas, penetrates parts quickly and offers long term lubricating effect.

[Applications]

- •Applies to rotating and vibrating parts of motors, chains and
- gears.

 Applies to rotating and vibrating parts of construction, agricultural machinery and machine tools.

 Stops squeaking noise from shutters, door hinges, chains of bicycles and steel furniture.

[Performance]

[. c c. mance]		
Mineral Oil		
Aluminum complex soap		
1		
about 320		
981N		
200℃		
Over 72 hours		
-20~200℃		



Item No		
000020	High-Grade Grease	300ml x 24pcs

Soft Grease Spray

Long term anti-corrosive & lubricating grease

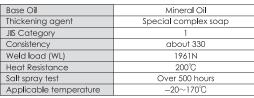
- Superior in rust proof & water-resistance and keeps long period of lubricant effect.
 With excellent penetrating property, penetrates into narrow
- openings.
 •Almost no foaming and splashing.
 •With excellent penetrating and heat-resistant characters.

[Applications]

- •Anti-rust and lubrication for the rotating and vibrating parts of
- the chains, gears etc.

 Applies to rotating and vibrating places where probably moistened by water, vapor and seawater; and to the places where lubricating and penetrating required at high
- •Stops squeaking noise from shutters, door hinges, chains of bicycles and steel furniture.







ltem No	Product Name	Volumetric capacity Packing
000109	Soft Grease Spray	300ml x 24pcs

Chain Grease

White penetrating grease (compounded with white solid lubricant)

[Features]

- Containing white solid lubricating agent with strong abrasion resistance and noise reduction effects.
 Super high grade adhesive, waterproofing, acid & alkali resistance.
 This grease, which has excellent penetrating performance, spreads to any complicated places.
 Strong against corrosion.
 No performance reduction under water splashing conditions.
 Do not have any effect on O-Ring, such as seal chain.
 High adherent with least splashing.

[Applications]

- Applies to open gears, guide rail, slide rail, wire rope, crane wire, gear coupling, motorcycle and chains.

 As a lubricating agent for the components where penetrating and waterproofing are necessary.

 Applies to narrow openings.

 Spray to the places where scattering or grease trickling is in a part of the places.
- auestion.

[Performance]

[Perrormance]		
Base Oil	Mineral Oil	
Thickening agent	Lithium soap	
JIS Category	0	
Consistency	About 370	
Weld load (WL)	1961N	
Heat Resistance	100 ℃	
Salt spray test	Over 120 hours	
Applicable temperature	-15~120°C	







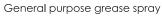


ĺ	ltem No	Product Name	Volumetric capacity Packing
	00512	Chain Grease	300ml x 24pcs



Lithium Grease





[Features]

- Available for Long time application, excellent consistency because of its super mechanical stability.
 Stands up to long time usage, due to its excellent water-proof, anti-rust and oxidization stabilities.

[Applications]

- •Applicable to every kind of wheel bearing, gear and pin.
 •Sliding and rolling for every kind of industrial machines, bearings.

[Performance]

Base Oil	Mineral Oil
Thickening agent	Lithium soap
JIS Category	1
Consistency	323
Weld load (WL)	1236N
Heat Resistance	150℃
Salt spray test	Over 72 hours
Applicable temperature	-20~150°C



ltem No	Product Name	Volumetric capacity•Packing
000511	Lithium Grease	420ml x 24pcs

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Silicone Grease / Silicone Grease Spray

Heat resistant, cold resistant & water-proof grease







Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support

Groove Antirust

Product

Joining Parts Treatment Agent

[Features]

- •Prevents rubber and plastic from wearing off and dwindling
- •Applicable temperature from -40~180°C
 •Different from common grease, no dripping at high temperature and no hardened at low temperature. Chemically an inert

[Applications]

- Lubrication for Disk Brakes O ring.
 Seals for cup rubber of wheel cylinder.
 Lubrication for Wiper motor.
 Lubrication for Clutch Pilot and Bearing
 Lubricates the bumping point of Back plate and brake shoe
 Lubricates and seals gear vibrating part.

 Anti-rust and water proof for battery terminal connector.

[Performance]

Base Oil	Silicone Oil
Thickening agent	Lithium soap
JIS Category	2(00025)/1(00026)
Consistency	260(00025)/320(00026)
Weld load (WL)	_
Heat Resistance	180℃
Salt spray test	48 hours
Applicable temperature	-40~180°C



Lubrication of plastic parts

000025	Silicone Grease	100g x 24pcs
000026	Silicone Grease Spray	220ml x 24pcs

*Not applicable to Silicone Rubber and Nature Rubber. %Not applicable to boundary lubrication of steel and steel.

Damp-Proof Grease for Connector

[Features]

Damp-proof lubricating grease for couplers

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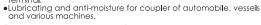
Bottom-Up Waterproof Spray

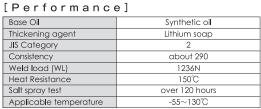


•Used as lubricating and moisture proof agent for coupler and

•Lubricating and anti-moisture grease for coupler housing of

terminal.
•Rust and moisture proof from the reverse side of solderless











	Product Name	Volumetric capacity Packing
000285	Damp-proof Grease for Connector	180ml x 24pcs



Moly-Attack

High concentration molybdenum disulfide paste spray











Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

[Features]

- Forms moist molybdenum disulfide film. Maintains high chemical stability and able to be used in the places immersed in water or organic solvents.

 With extremely low coefficient of friction, from low temperature to high temperature (-30~400°C), keeps high lubricating effect, strong against extreme high pressure.

 Able to be mixed with ordinary lubricating oil to increase lubricity.
- lubricity.

[Applications]

Prevents high - pressure sliding and rotating place from burning, seizure, abrasion and squeaking for machine tools and construction machinery.

[Performance]

- · · · · · · · · · · · · · · · · · · ·		
_		
_		
2452N		
400 ℃		
0.10		
-30°C~400°C		



Item No		
000022	Moly-Attack	300ml x 24pcs

Anti-Seize Spray

Preventing high temperature screw adhesion

[Features]

- Prevents screw from seizing, sticking and burning under high temperature and high load.
 Prevents parts from damaging.
 Temperature range: -40~1,200°C

 With rust-proof effect.(indoor rust proof), Keeps high performance for long period.

- for long period.

 •With lubricity, screw can be easily detached.

[Applications]

Prevents machine screw, bolt or nut used for high temperature blast furnace or quenching furnaces from seizing, sticking and burning.

[Performance]

_	_
Salt spray test	Over 120 hours
Indoor rust proof	Over 1 Year
Weld Load	2452N
Heat Resistance	1,200 ℃
Kinetic Friction Coefficient	_
Applicable temperature	-40°C~1,200°C



		Volumetric capacity Packing
000199	Anti-Seize Spray	300ml x 24pcs

Dry Lubricant

Dry film lubricating agen "PTFE" dispersion type

[Features]

- Not sticky. Dry film(PTFE Powders), dust is not attachable.
 Most suitable for the plastic part lubricating.
 Stops v belt squeaking noise.

[Applications]

- Stops squeaking noise of V-Belt.
 Lubrication for door locks, hinges, chains, etc.
 Lubrication for oil seal and rubber hose jointing.

[Performance]		
	Heat Resistance	250℃
	Kinetic Friction Coefficient	0.04~0.07
	Applicable temperature	Below 250°C



Item No	Product Name	Volumetric capacity • Packing
000186	Dry Lubricant	65ml x 48pcs



JIP







Biodegradable Chemicals



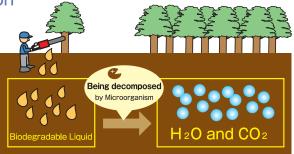






Biodegradable products are suitable to be used at environment conservation areas (forests·farm ·river, etc)

Organic chemical substances contained in the solvent are decomposed into H₂O and CO₂ by Microorganism, return to the nature.



*Do not discharge large quantity of oil into nature rashly, please follow the reference law

Biodegradable Oil Spray-EX

Biodegradable anti-corrosive lubricating oil



[Features]

- Green product and safe to use since its base oil is Biodegradable Synthetic Ester.
 Biodegradable rate is more than 60% (OECD 301C/28 days).
 Raw material of this product has passed Biodegradable Lubricating Oil Eco Mark Certification Criteria.

[Applications]

- •Loosens binding crews, nuts, etc. caused by rust or seizure.
- Used as rust removing and preventing agent for blades.
 Anti rust and lubrication for door hinges or chains, etc.



Item No	Product Name	Volumetric capacity•Packing
000820	Biodegradable Oil Spray-EX	420ml x 24pcs

Biodegradable Grease Spray-EX

Biodegradable anti-corrosive lubricating grease



[Features]

- •Uses Biodegradable Grease, Environment friendly product.
 •Biodegradable rate is more than 60% (OECD 301C/28 days).
 •Raw material of this product has passed Biodegradable Lubricating Oil Eco Mark Certification Criteria.

[Applications]

- As a lubricating agent for rotating and vibrating places of various agriculture machines. (Tractor, Combine Harvester, Chain Saw, Bush Cutter).

 Applied to door hinges, chains or shutter, etc.



Item No		
000821	Biodegradable Grease Spray-EX	420ml x 24pcs

Biodegradable Chain Oil Spray-EX

Biodegradable chain oil



[Features]

- Green product and safe to use since its base oil is Natural Vegetable Oil.
 Biodegradable rate is more than 60% (OECD 301C/28 days).
 Raw material of this product has passed Biodegradable Lubricating Oil Eco Mark Certification Criteria.

[Applications]

Applied to chain saw, forklift, bicycle chain or gear.
 As a lubricating agent for rotating and vibrating places of various agriculture machines. (Tractor, Combine Harvester, Chain Saw, Bush Cutter).



Item No		
000822	Biodegradable Chain Oil Spray-EX	420ml x 24pcs

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Stainless Cut / Stainless Cut L











Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

[Features]

- As extreme pressure chlorine additive contained, superior in anti-deposition and most suitable for hard cutting materials.

 With the effect of reducing abrasion of the drill bit, extend tools'

- Oquicken cutting speed and raise work efficiency.
 Smoothly ejects cutting chips. Almost no burrs, curves and prevents plucking off and seizing.
 Finishes with an excellent smooth surface & improves the
- dimensional accuracy

[Applications]

•Used as a lubricating agent in the process of tapping, thread cutting, twist drilling, reaming and broaching for hard cutting materials, such as stainless, aluminum, copper, titanium alloy, etc.

[Performance]

Weld Load	4903N
Copper strip corrosion test	1a (100°C x 1hr)
Viscosity(40°C)	36cSt
	_
Applicable temperature	Below 100°C



Item No	Product Name	Volumetric capacity Packing
000111	Stainless Cut	330ml x 24pcs
000113	Stainless Cut 1L	1L x 12pcs

Super-Cutting Spray / Super Cutting Oil

Chlorine and activated ion free

JIP

超切削オイル 印

JIP

多切削

JIP

ステンカットレロ

[Features]

- •Do not contain chorine, phosphorus, activated ion and heavy
- Do not contain chorine, phosphorus, activated ion and heavy metal.
 New Cutting Agent applicable to almost all materials from light cut to heavy cut.
 No worry of generation of Dioxin, since it does not contain Chlorine. Saves time for separation of waste.
 No worry of materials corrosion, because it bases mineral oil with none-reaction addictives.
 No unpleasant smell from ion addictives.

[Applications]

Applies to all kinds of metals along with non-ferrous metals.

Used in the process of tapping, drilling, reaming, screw cutting and broaching works.

[Performance]

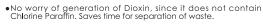
_		
	Weld Load	2452N
	Copper strip corrosion test	1a (100°C x 1hr)
	Viscosity(40°C)	44.7cSt
	Inactive Sulfur	Below 0.5%
	Applicable temperature	Below 100°C
_		



000114	Super Cutting Spray	420ml x 24pcs
000614	Super Cutting Oil	1L x 12pcs

Tapping Spray(Chlorine-Free) Cutting lubricant





[Applications]

Applies to all kinds of metals along with non-ferrous metals.
Used in the process of tapping, drilling, reaming, screw cutting and broaching works.

[Performance]

[1 C11O1 manoc]		
Weld Load	2120N	
Copper strip corrosion test	1a (100°C x 1hr)	
Viscosity(40°C)	44.7cSt	
Inactive Sulfur	Below 0.6%	
Applicable temperature	Below 100°C	



Item No	Product Name	Volumetric capacity • Packing
000189	Tapping Spray (Chlorine—Free)	, , ,



W100 · W101 · W102





Waterproof and high strength grease cream

- A mixture of carefully selected white solid inorganic lubricants and mineral oils. A viscosity between lithium thickened grease and cream.
- This high performance white solid lubricant protects driven or moving parts contact surfaces from shocks or high thrust under harsh environments. It also protects the surface from friction and wear caused by fretting corrosion, etc.
- The solid inorganic lubricants used will not harden or degrade the surface of the metal to be lubricated.



[Features]

- Good adhesion to the surface, waterproof and good rust protection
- This white solid does not contain fluoride and silicone.
- Does not contain chlorides, heavy metals and solutions.
- Able to withstand impact.
- Excellent lubrication between ferrous and non-ferrous metals.
- Able to extend the service life of the machine, reduce the frequency of using lubricants and reduce maintenance costs.

[Applications]

 \bullet Prevents grinding of the contacts during the installation process or during tightening.

[Applications]

all kinds of electrical equipment, etc.

The 1st bearing of all types of motor or bearing that is exposed to high

temperatures (such as the bearing of the driving gear, coke charcoal

compressor that has been through a dry distillation process or bearing of

the hot air blower, etc.), the exterior bearing of the blower or bearing of the

exhaust fans, bearing of generators, bearing of drainage pumps, bearing of

- Lubricates gear, heavy-duty but low speed ball bearings.
- Lubricate the rotating bearings of the crane.
- Lubricate the king pin and bucket pin (if applied during servicing, replacement of parts will be easier).
- Lubricate the ball bearings with guide tubes that require waterproofing and heavy-duty properties, such
 as trailer joints, crane outriggers.
- Suitable for lubricating splines and constant velocity joints.

Item No	085975	085993	085976	085990	085977	085991	
Product Name	WeissSoL W100 Cartridge	WeissSoL W100	WeissSoL W101 Cartridge	WeissSoL W101	WeissSoL W102 Cartridge	WeissSoL W102	
Packing Quantity	400mL x 10 Pieces / Box	16kg / Tub	400mL x 10 Pieces / Box	16kg / Tub	400mL x 10 Pieces / Box	16kg / Tub	
Operating Temperature	perature -10~120°C		-10~120°C		-10~1	-10~120°C	
JIS Standard Viscosity	No.0		No.1		No.2		
Viscosity Enhancer	Lithium		Lithium		Lithium		
Color	Light yellow		Light yellow		Light yellow		

• Not a hazardous substance according to the fire prevention law







Mould Releasing Spray

Surface

Checking

Agent

Food

Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Polyurea grease for high temperature bearings

- A grease made by mixing mineral oil with a mixture of screened white solid inorganic lubricants and thickened by polyurea.
- Very little oil separation and excellent oxidizing and shear stability. Excellent water resistance.
- \bullet Excellent softening resistance for high temperature use and durability.

[Features]

- Excellent oxidizing and shear stability
- Excellent resistance to electrical corrosion of bearings
- Excellent resistance to water and rust
- $\bullet\,\mbox{No}$ fluorine or silicon in the white solid
- Separation of this blackberry at high temperatures is negligible which prevents grease from leaking.
- Can be used with high speed bearings.
- Extend equipment life and lubrication intervals
- Can help reduce maintenance costs.





Item No	1085973 085950		1085974 1085952		
Product Name	PU201Cartridge PU201		PU202Cartridge	PU202	
Packing Quantity	400mL x 10 Pieces / Box 16kg / Tub		400mL x 10 Pieces / Box	16kg / Tub	
Operating Temperature	-20°C~+200°C		-20°C~+200°C		
JIS Standard Viscosity	No.1		No.2		
Viscosity Enhancer	Polyurea		Polyurea		
Color	Light yellow		Light yellow		

Not a hazardous substance according to the fire prevention law

PISSOL HT310 fluid · HT310 · HT312





Lubricating cream for high temperatures

- •HT310 Fluid is a liquid type that can be used with a brush (must be stirred). It can be sprayed by using spraying devices.
- T310 is a semi-fluid and can be used with lubricants (must be stirred).
- •HT312 is a lubricating cream that can be used with parts that are exposed to temperatures as high as +1,400 °C. There is a lubricant to prevent black stains with good adhesion and does not cause dropping points.

[Features]

- Operating temperature range -30°C~+1,400°C (If more than +200°C, it will gradually change from cream lubrication to dry lubrication.)
- Has the ability to prevent friction and stuck between all kinds of bolts and pins.
- Can extend the maintenance period.
- \bullet Resistant to fretting corrosion and excellent corrosion protection.
- Increases work safety and reduces operating costs.
- Low friction coefficient and excellent lubrication, thus reducing corrosion on the surface.
- Can be used in a variety of operating temperature ranges and excellent lubrication properties.

[Applications]

Protects bolts, hinges and screw joints from friction and interruption. It is also suitable for lubricating low-speed bearings, cam followers, disk cams, rotating cores and chains that need to be exposed to high temperatures. In addition, HT312 is also used in the melting furnace and plating factory, evaporating machine, turbine, sterling, exhaust gas plant, oven, screw connection in pressing head, conveyor factory, conveyor, chain and adjusting axis in smoke nozzle. *It is recommended to use HT310 fluid with the chain.





Item No	085971	085970	085972	485984
Product Name	HT310 fluid	HT310	HT312Cartridge	HT312
Packing Quantity	4kg / Plastic container	18kg / Tub	400mL x 10 Pieces / Box 18kg / Tub	
Operating Temperature	-30°C~+1,400°C	-30°C~+1,400°C	-30°C~+1,400°C	
JIS Standard Viscosity	-	No.0	No.2	
Color	Black gray	Black gray	Black gray	
Fire prevention law	Type 4 Category 2 Hazardous oil type 4	Type 4 Category 3 Hazardous oil type 18	Not a hazardous substance according to the fire prevention law	

• Not a hazardous substance according to the fire prevention law

CISSSOL F232



Highly efficient, special fluorine grease

• F232 is stable for oxidation and high heat in the maximum heat at +260°C by using highly concentrated alkoxy fluoro oil as an oil component.

[Features]

- Operating temperature range -30°C~+260°C
- Has an excellent electrical insulation property because it is a macromolecule and is compatible with many materials.
- Excellent stability for the oxidation and heat.
- Excellent chemical resistance
- Excellent high-pressure resistance
- Not flammable
- Can be used with a bearing with dnm value up to 300,000.

[Applications]

Lubricating sliding areas inside the mold, such as the surface of the mold, the rolling axis, guide pin, which may affect the finished product due to the leakage of grease or oil. It can be used with the inside of valves, all types of bearings, metal bearings that cannot be used with general grease or oil due to solvent or the ability to dissolve in water and used in lubrication and sealing resin and air striker with metal.



Item No	85978
Product Name	F232
Packing Quantity	100g x 4 Pieces / Box
Operating Temperature	-30°C~+260°C
Color	White
Consistency	No.2
Viscosity Enhancer	PTFE

One-liquid Zinc-rich Primer Spray Stainless Steel

Surface

Checking

Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould

Releasing Spray

Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

E1555ol GEAR210-2500





Open-gear lubricant with extremely adherent property

- Tacky lubricant in a semi-liquid condition, which does not contain asphalt oil with graphite or heavy metal and can be easily used with mechanical spraying devices.
- •It has excellent tube circulation properties by transforming basic oil that is highly viscous to grease. In addition, Gear210-2500 used to spray on the pump gear lubricant surface helps to protect the gear surface by operating according to the EHL theory (Hydro dynamic fluid).
- This product does not produce a drop at high temperatures and does not spread even at high speeds. It also has the ability to pump lubricants at low temperatures. It is water resistant and has excellent wear protection.
- It can be used with a large driving device in a cement plant, ball mill in sugar factory, girth gear and wire rope.



[Features]

- Excellent anti-corrosion properties
- Corrosion resistant
- Excellent adhesion
- Especially good for sprockets or lubrication points at high rpm.
- It can be used by controlling the lubrication interval.

[Applications]

Suitable for lubricating open gears such as kilns, circumferential gears, compound gears, sprockets, wire or wire rope hoists such as cranes, etc.

Item No	085987
Product Name	GEAR210-2500
Packing Quantity	15kg / Tub
Operating Temperature	+5°C~+140°C
JIS Standard Viscosity	Aluminium Complex
Viscosity Enhancer	No.0
Color	Black

Not a hazardous substance according to the fire prevention law





Cleaner

Surface

Checking

Agent

Lubricant

Food

Machinery

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

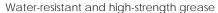
Welding Spatter Antifouling Agent /Welding Support Product

Toxicity

Groove Antirust Spray

Joining Parts Treatment Agent

CISSSOL CL201



- A mineral oil-based calcium sulfonate complex grease with water-repellent properties used for lubrication points in contact with water
- This grease will not soften and be washed off even under constant contact with water.
- It is a combination of viscosity enhancer and additives. Provides excellent lubricity and corrosion protection under very high-pressure conditions.

[Features]

- Water resistance and excellent practicality.
- Excellent high resistance
- Improves friction and wear resistance properties
- Excellent anti-corrosion performance
- Resistant to fretting corrosion
- Excellent suction and pumping properties.



[Applications]

It is particularly suitable for use in rolling and sliding bearings where temperatures and bearing loads are increased or where impact, compressive stress and vibration are exerted, particularly in machinery for processing raw materials, grinders, large excavator chains, quarry dryers, conveyor chains and fan type equipment. Used as a grease for rolling and sliding bearings of low and medium speeds in the steel industry and mining.

Item No	085988
Product Name	CL201
Packing Quantity	16kg / Tub
Operating Temperature	-30°C~+150°C
JIS Standard Viscosity	No.1
Viscosity Enhancer	Calcium Sulfonate Complex
Color	Dark Brown

• Not a hazardous substance according to the fire prevention law

CISSSOL FI312

High temperature lubricant for food equipment

•Fl312 is a white anti-seize lubricant that can be used up to +1200°C and is NSF H1 registered.

[Features]

- Operating temperature range -40°C~+1,200°C (if above +200°C, gradually changes from cream lubrication to dry lubrication)
- Its anti-seize and lubricating properties remain unchanged even under high contact pressures over a wide temperature range.
- Because it is white, it does not damage the appearance and makes it easy to detect contamination.
- Excellent protection against frictional corrosion
- Helps to prolong maintenance intervals
- It can be used in a variety of cases, not just in the food industry.

[Applications]

Protects bolts, hinges and threaded joints from abrasion. It is also suitable for lubricating low-speed bearings, cam followers, disk cams, rotating cores and chains that need to be exposed to high temperatures. It is also suitable as a lubricant in hot shaping (die forging, hot rolling and hot extrusion of nonferrous metals and steel, etc.).







Item No	085982	085983
Product Name	FI312Cartridge	FI312Cartridge
Packing Quantity	100g x 6 Pieces / Box	400mL x 10 Pieces / Box
Operating Temperature	-40°C~+1,200°C	
JIS Standard Viscosity	No.2	
Color	White	

 Not a hazardous substance according to the fire prevention law

Food Machinery Grease H1

PRTR Toxicity

Toxicity

NSF-H1 grade grease cartridge for food processing machinery



[Features]

- Semi-transparent grease for food processing machinery. • There is no white powder left because it is not mixed with solid lubricants.
- •H1 registered so it can be used in areas where accidental contact with food is likely to occur.

[Applications]

- Mixer, slicer, fish fillet, grinder, etc.
- Used for gears, chains, transmission parts, bearings, sliding parts in overall food industry machinery.
 Solid combustible, 400 g

	-
	H1
Approved Number	No.156530

Item No Product Name				
000181	Food Machinery Grease H1	400 g x 10 cans		

[Performance]

Test Type		Test Standard	(Unit)	Test Result
Color		Eyesight		Light yellow, semi- transparent
Viscosity Enhancer		-		Aluminium Complex Soap
Operating Temperature		-		-20°C~+180°C
Continuity		JIS K 2220		280
Dropping Point		JIS K 2220	(°C)	256
Oil Separation		JIS K 2220	(wt%)	2.9
Kinematic Viscosity	40 °C	JIS K 2220	(0 (-)	68
of Oil Components	100 °C	JIS K 2220	(mm2/s)	9

Food Machine Grease 3H

Registered as NSF 3H, H1 grease with dispenser

18 €

Anticorrosive /Special Paint

Surface Checking Agent

Lubricant

Machinery

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich **Primer Spray**

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

[Features]

- Specific grease for food machines that contains food additives as stipulated by Food Hygiene Laws Ideal to use for lubrication in applications where it will contact food

[Applications]

- For a mixer, slicer, fish cutting machine, fish crushing
- To a trike, place, that cotting tractaline, histocrasting machine, etc.
 For driving parts including all gears, chains, bearings, and bearing of moving parts
 For maintenance of all types of seafood processing
- For food processing, pharmaceutical, cosmetic or packaging machines

NSF	H1. 3H
Approved Number	No.157607

[Performance]

Test Type	Test Standard	Lubrication	Test Result
Color	Eyesight Lubrication		Light yellow, semi-transparent
Viscosity Enhancer	_		Calcium soaps
Operating Temperature	_		-20°C~+80°C
Continuity	JIS K 2220		310
Dropping Point	JIS K 2220	(°C)	98
Oil Separation	JIS K 2220	(wt%)	1.3

000185	Food Machine Grease H3	120g x 6pcs

Food Machinery Grease

NSF-H 1 grade machinery grease spray

JIP

食品機械用

JIP 127

食品機械用

潤滑剤



- While grease spray used for food machines with excellent water proof, oxidation and mechanical stability.
 Applied to the places where may contact with foods.
 With excellent oxidation stability, keeps long term
- lubricating effect.

[Applications]

- As a Lubricant for food machinery chains, rotating and vibrating places.
 Used for fish or meat processing machines; filling up equipment for sake brewing, and various drinking; food conveyor or packing apparatus, etc.

	0
NSF	H1
Approved Number	No.144729

Item No		
000188	Food Machinery Grease	300 ml x 24 pcs

[Performance]

Test category	Test Measure	Test resu		ılt
Consistency	JIS K 2220		217℃	
Drop point	JIS K 2220		10.2wt%	ó
Oil Separation	JIS K 2220			
		–20°C	Starting torque	6.7N·cm
Low-temperature	JIS K 2220	-200	Running torque	4.3N · cm
torque test		-20°C	Starting torque	20.2N·cm
			Running torque	11.8N·cm
		Last Non-Seizure load		1236N
Shell four-ball test	ASTM D 2596	Welding load		3090N
1631		Load		578N
Soda four ball	JIS K 2519	Acceptable limit load		0.441MPa
test	JIS N 2519	Average f	riction coetticient	0.79mm

[Safety]

Te	Test result		
Motorial toat	Lead	Under 1ppm	
Material test	Calcium	Under 1ppm	
Dissolution test Heavy metal		Under 1ppm(Pb)	
Dissolution test	Potassion permangate consumed	Under 0.5ppm	

Food Machinery Lubricant





PRTR



Oil spray applied to NSF-1H and 3H grade food machines

[Features]

- This lubricant, itself is eatable. Produced on Food oil Line.

 Liquid lubricating oil, with vegetal fatty acid of a high degree of purity as major ingredient.

 The properties of liquidity, permeability, digestible and absorbable, which cannot be found in other general
- vegetable oil.

 Super oxidation stability (preservation), able to keep long
- biodegradable and non-toxic. The composition –
 Triglyceride is used for processing food and medicine.

[Applications]

- Used as lubricating agent for food processing machines; mould releasing agent for food containers.
 As lubricant for food-cutter, meanwhile, preventing food adhere.

dullele.	
NSF	H1. 3H
Approved Number	No.144730

[Performance]

Ludeniela	Kinetic Friction Coefficient	0.17	
Lubricity Pressure Resistance		0.55Mpa (Four Ball Test: 200rpm)	
Oxidation Stability 97.8±0.2℃		Over 300 hours	
Temperature	Applicable temperature	-5℃~200℃	
characteristics	Flash point	240℃	

[Safety]

Taste	Taste less
Digestibility	Hydrolysis and absorption easily
Metabolizability	Easily Oxidized
Coliform Group	Negative

Item No	Product Name	Packing Volume • Packing
000127	Food Machinery Lubricant	420 ml x 24 pcs
000627	Food Machinery Lubricant	16 L x 1 Tub

Food Oil

0.11

784N

9.9 cm

316°C

1000

2 Ways

-5°C~200°C

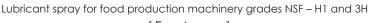




Toxicity

Toxicity

PRTR



[Features]

- Certified by NSF "3H", it's safe despite contaminating with food.
 By using a 2-way cap, there is no need to remove the nozzle and reduce the risk of loss at the nozzle.
 By adopting a blue cover, even if the cover is misplaced, it is easy to spot because it is blue.
 Economical type, packing size up to 500 mL.

[Applications]

Used as a non-stick oil (European confectionery, bread, rice robot for rotating sushi).
 Used as a blade lubricant for food cutting machines.
 Used as a lubricant for food production machinery.

500ml x 24pcs

		HI. Jr	1		
Approved Number		No.154785			
			Packing	a Volume	Packing

1.00	ozing i onit	100	
[Biochemical	perforn	nance]	
Taste	No taste		

and Pendulum Friction

Load Resistance, Shell Four- Ball Test at 1770 rpm

120°C

perating Temperature

Negative

Flash Point

[Performance]

Lubrication

Oxidizing Stability (CDM Test)

Temperature Characteristic

Coliform Group

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive

/Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould

Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel

Surface

Treatment

Welding Spatter

Antifouling Agent /Welding Support Product

Groove Antirust Spray

Food Machinery Silicone Spray

Food Oil

Silicone lubricant for food machinery NSF-H1 grade

JIP

食品機械用

/リコ-ソスプレ

[Features]

000183

- It is a high safety silicone lubricant registered in the NSF H1 grade that is safe even for accidental contact with food. It is a solvent-free formulation to reduce viscosity and is highly safe and can be used in food factories.

 It has no effect on rubber or plastic. (Excluding raw rubber, silicone rubber)

 Economical type, packing size up to 500 mL.

- Use a 2-way cover, a stainless-steel nozzle and can be injected upside down.

[Applications]

- Used as a mold release agent and light lubricant of food production machinery, etc.

 Applies to food, pharmaceuticals, cosmetic manufacturing equipment, washing equipment, transportation equipment at self-refueling stations.

 Improves the penetration of rubber products (packing, stamping).

	H1
Approved Number	No.151632



Odorless

Item No		
000184	Food Machinery Silicone Spray	500ml x 24pcs

Heat Seal Checker

Poor seal checking fluid



[Features]

- All ingredients are compatible with food and food additives. Poor seal positions can be inspected at the micron level. The bright red dye gives excellent visibility and it has a really great penetration.
 Use of water-soluble dyes for food, resulting in
- superior washing and removal abilities compared to oil-soluble solutions.
- It can be used as a penetrating solution to check for penetrating defects using dye with food machinery.

[Applications]

Used for checking the part covered with a heat seal, the part stretched to the back, the part of the device whether it is completely sealed or not.

Item No		Packing Volume • Packing
000310	Heat Seal Checker	220ml x 6pcs

• Class 4, Class 1 oil type, 132 mL, Hazard level 2

[Performance]

External Appear- ance	Red liquid
Operating Tem- perature	0 ~ 80°C

Spray the parts to be inspected.





2 Ways





Joining Parts Treatment Agent

Scale Remover



- Descoling on steel and rust that occurs on metal such as heat transfer plate from hot water, steam

 Flush scale (iron-based) as well as the scale contained in groundwater and pipes by immersion.

 Reacts with iron powder and turns purple-red for quick cleaning
- results.

[Applications]

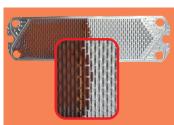
Scale cleaning agent for plate heat exchangers
 Removes rust from metal parts and heat transfer plate.

[Performance]

Operating Temperature Room temperature



- DITECTION]
 Please clean the dirt on the plate in advance.
 Please soak it in the bath containing this solution.
 Soak until the scale has been completely removed. (Depending on the amount of scale, the threshold is 8 hrs.) The liquid will change from clear to dark purple.
 Please take out the plate, rinse off the solution sufficiently and dry.
 *Diute according to the degree of scaling (undiluted solution 3-time dilution) and soak until the scale is completely removed.
 *If the temperature is raised to 40 to 50 °C, the cleaning power will be increased will be increased.



Item No		
000569	Heat Seal Checker	24kg x 1Tub

 Not a dangerous goods according to the fire prevention law

Rust Jet

JIP

Water displacing anti-rust agent

JIP

ラスジェット 15L

[Features] Prevents rusting by displacing water. Able to apply to all kinds of metals. Doesn't corrode metal surface or change its color.
 No interference with electrical contacts; Suitable for the protection of electrical devices.
 Protects coated surface from salt adhesion or corrosion on sea; Prevents from corrosion caused by fingerprints.

[Applications]

•For rust prevention and lubrication of all kinds of metal products,

precision instruments, tools and surface plates, etc.

For rust and moisture prevention on complicated wiring of electrical devices, batteries, communication equipment, computers and motors.

[Performance]

-	-
Salt spray test	Over 120 hours
Indoor rust proof	Over 24 months
Outdoor rust proof	Not Available
Film thickness	2-3µm
Applicable temperature	-10°C~130°C



PRTR

PRTR

Item No	Product Name	Volumetric capacity Packing
000107	Rust Jet	420ml x 24pcs
000160	Rust Jet 15L	15L x 1can

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Pain

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Rustguard

Semi-dried anti-rust agent

ラストガード

クリアー

[Features]

Semi-dried, no stripping even scratched by hand.
 Super-strong rust-preventing property in adverse conditions caused by outdoors moisture, salinity and chemical or corrosive environment.

•Suitable used as long-term indoor and outdoor rust preventing

agent.
 Can be used as lubricant and anti-corrosive agent for hinges of bonnet and boot.

[Applications]

Rust proof for parts in processing, storage and transit.

Indoor and outdoor storage for ferrous material and machinery.

Corrosion-protection for machinery, like iron plate, ferrous material of garage, pump, house and factory near the sea.

Weld surfaces under chassis and inside of fender, locker panel.

[Performance]

=	=
Salt spray test	Over 480 hours
Indoor rust proof	Over 5 years at film thickness 50µm
Outdoor rust proof	Over 2 years at film thickness 50µm
Film thickness	20µm~50µm
Applicable temperature	Below 100°C



000088	Rustguard Clear	500ml x 24pcs
000089	Rustguard Brown	500ml x 24pcs

Rustguard Green

Wax-based • mould anti-rust agent

ラストガード

[Features]

•An odorless anti-corrosive agent made from high-refined wax

An odorless anti-corrosive agent made from high-retined wax and little odor solvent.
Wax-based, semi-dried film protects metal surface and keeps excellent rust proof effect.
Not only used for mould, but also can be applied to machine parts and equipment.
Film is easy to be checked because of the green color. Increase work efficiency.
Suitable for places where the green it required to be reproved in

•Suitable for places where the agent is required to be removed in future.

[Applications]

•Corrosion prevention for mould, machine parts and equipments.

[Performance]	
Salt spray test	Over 96 hours
Indoor rust proof	Over 1 and half a year
Semi-sealed condition	2 Years~3 Years
Fi l m thickness	20μm~50μm
Applicable temperature	Below 50°C



Item No	Product Name	Volumetric capacity Packing
000129	Rustguard Green	480ml x 24pcs



Mould Anti-Corrosion Agent-Volatile





[Features]



[Applications]

Rust prevention for injection mold.
Rust proof for preserve or transport of metal parts, etc.

[Performance]

Salt spray test	_
Semi-sealed condition	6 Months~1 year
Completely sealed condition	1~2 years
Applicable temperature	Below 80°C

Item No	Product Name	Volumetric capacity•Packing
000125	Mould Anti-corrosion Agent-Volatile	420ml x 24pcs

Surface Checking Agent

Lubricant

Food Machinery

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter

Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts

Treatment Agent

Excellent rust - proof effect in any small & complicated places owing to volatility. (Including the places where can not be covered by spray)
 Different from anticorrosive oil or wax type, can be used without mould cleaning.
 Can be restarted the mould without cleaning.
 Only shoot out 2 to 3 times for trial run.
 Once it is applied, rust proof film is formed on the metal surface and meanwhile, volatilized rust prevention molecule reacts from water and changes to rust, a roof water to prevent metals from

water and changes to rust - proof water to prevent metals from

Salt spray test	_
Semi-sealed condition	6 Months~1 year
Completely sealed condition	1~2 years
Applicable temperature	Below 80°C



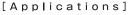






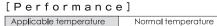
•Releases rust from corroded and fastened bolt by several

• Removing rust by dipping rusted metals into SABES for less than 10 minutes.



Removes rust from metals, removal of oxidation film such as oxidation film of concrete on steel surface and lime calcium sediment etc.

After removal of rust, cleans the surface by washing or wipe off by cloth. Afterwards, proceed anticorrosive treating.



[Application method]

Applies evenly on corroded surface, and leaves it for several minutes.

Afterwards, wipe rust off with waste.

If rust is not completely removed, repeats 1 and 2. After removing rust, flush the surface with water.

To prevent getting rusted again, use anti-corrosive agent for final

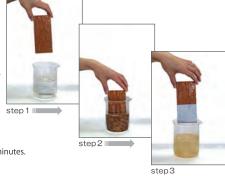
anti-corrosive treatment.

** For severe rust, scrapes coarse rust with wire brush beforehand.

** After applying SABES, don't leave it for more than 10 minutes.

It may cause corrosion on non-rusted parts.

** The same procedure with lime calcium sediment and concrete.



Item No		
00694	Sabes SP 500	500ml x 12pcs
00695	Sabes SP 4L	4L x 4bottles

HK ZSP 41

JIP

Rustguard F Clear

Not listed in Organic Solvent Poisoning Regulations, Penetrating Long Term Rust Preventive



[Features]

 Not a substance listed in the Organic Solvent Poisoning Regulations

Not classified as a PRTR substance

It has the ability to penetrate and form a protective coating in the material and can be used as a rust preventative in gaps or fissures.

• Suitable for long term rust protection both outdoor and indoor.

[Applications]

• For both outdoor and indoor storage of machinery or steel

• Rust prevention of parts that are produced, stored or in transit Corrosion prevention of steel or machinery in factories, buildings or sheds in coastal areas
 Long-term rust prevention of press molds

[Performance]

-	_		
Salt Water	400 hus	Coating Thick-	20∼50µm
Spraying	480 hrs	ness	20/~30μ111
Indoor Rust	2 years	Operating	not more than
Proofing	2 years	Temperature	50°C
Outdoor Rust	from 1 year	Temperature	
Proofing	onwards	Level Used	



Item No	Product Name	Packing Volume • Packing
000388	Rustguard F Clear	500ml x 24pcs
000388	Clear	500mi x 24pcs

Class 4 product, Class 1 oil type, 250 mL, Hazard level 2

Blacking Spray

High adhesion and quality finish



PRTR



Lubricant

Food Machinery

Anticorrosive /Special Pain

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

[Features]

- Clear black finish with thin film.
 Compounded of high concentration of graphite and high adhesion of resin.
 The coating film won't peel off even if the metals bump with each other.

[Applications]

•For blacking metals like iron, stainless, copper, aluminum, and POM(POLYACETAL) and ABS resin.

[Performance]

2~3 min
) about 20 min
rure 150°C
1.5m²
e Normal temperature
about 20 min rure 1.50°C 1.5㎡



Blackening metal parts

Item No	Product Name	Volumetric capacity Packing
000179	Blacking Spray	420ml x 24pcs

Repair Pen Black

Black repair paint



Pen type black paint.Simply brush the peeling off parts with the pen, do not soil the

hands.

•Clear black finish with the covered thin film.
•Contains special epoxy resin, which has excellent oil resistant

High adhesion thin film won't peel off the surface even the metals bump with each other.

[Applications]

•Repairs metals, such as iron, stainless, copper, aluminum, etc. (*It is not available for rubber and plastic.)

[Performance]

Drying time (to touch)	2~3 min
Drying time (to be hard)	about 20 min
Heat-resistant temperature	150℃
Application area	1.5~2 m²
Applicable temperature	Normal temperature



Blackening parts with repair pen

Item No	Product Name	
000590	Repair Pen Black	30ml x 6pcs

Heat Resistant Silver / Heat Resistant Black

Heat resistant paint

想到几八

600°C

600℃





[Features]

Heat Resistant Temperature: 600 ℃

• Even at 600 ℃ shocked by cold water, the coated film won't either peeling off or discolor.

• Protects from salt damage caused by snow melt agent, etc.

• When film gets dried, more adhesion hardened - film is formed by heating up.

[Applications]

•Exhaust Muffler of Automobile and Motorbike, Heating Stove, Chimney, Incinerator, Steam Piping etc.

[Performance]

15~20 min
Differ to heating condition
600 ℃
0.6~0.7m ²



Item No	Product Name	Volumetric capacity Packing
00082	Heat Resistant Silver	420ml x 24pcs
00086	Heat Resistant Black	420ml x 24pcs

Super Safety

Strong alkali water-based cleaner

[Features]

- Alkali cleaning agent, remove obstinate oily dirt stained on the metals, machines, such as rough oily dirt and backed oil on
- Water-based agent, not flammable or explosive.

[Applications]

- Removal of oily dirt from machines, parts, tools, factory equipment and floor.
- Cleaning oily dirt stained on cars or ships.
- Cleaner for car engine, chassis, tire, lining in vehicle, the inside of hook hood and trunk.

 *Can be used by undiluted solution or water-diluted solotion.

 *Hand spray bottle (Item No: 00196, 1 Lit) is available for Separate





Super Safety refill sprayer bottle (sold separately)

000196	Bottle Sprayer	1L x 1pc

Item No	000068	000069	000175	000170 / 000304
	Super Safety A (Volumetric capacity 18L x Packing 1 box)	Strong Super Safety (Volumetric capacity 18L x Packing 1 box)	Strongest Super Safety Cube (Volumetric capacity 18Kg x Packing 1 box)	Phosphorus-Free Super Safety (170 Volumetric capacity 18L / Packing 1 box 304 Volumetric capacity 1L x Packing 12 bottles)
	X-/(-tz-751	AX 69 スーパーセーフライ Grong Super Safety	Strong power	Environment Friendly
Available to be applied to obstinate oilly dirty of animal & plant.		Very strong alkali cleaner. To remove the diry which can not be cleansed by other cleaners or scorched oily dirt, etc.	Strong power cleaner. Water-diluted solution is available to be applied to all places.	Neutral cleaning agent, little effect on aluminum, rubber and plastic.
	13~14	13~14	13~14	7~8
	***	***	****	*
	a little	strong	strong	without pungent smell
	PRTR Toxicity Low	PRTR Toxicity Low	PRTR Not Applicable Low	PRTR Applicable Toxicity Low

※★ Indicates cleaning power, the more ★ the stronger the cleaning power is.

Dilution Ratio

Application				
Cleans various engine, scorched oily dirty and oxidized dirty.	undiluted liquid~	undiluted liquid~	undiluted liquid~	undiluted liquid~
Removes oily dirty from Machines, Parts, and tools.	~5x	~10x	~15x	1~2x
Cleans factory and office floor.	5~10x	10~20x	20x~	3∼5x
Cleans process goods, removes process oil and anti-rust oil from every kind of parts, machines.	10~15x	20x~	30x~	5~10x
Indoor cleaning for automobile, vessel, etc.	15x~	20x~	30x~	5x~
General office cleaning such as steel furniture, desks and chairs	20x~	30x~	50x∼	10x~

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Bubbleless Clean e

[Features]

- The ionic cleaning agent does not contain surfactants and is alkaline.
- Since there is no surfactant included, no foam is produced.
- Due to its watery nature, there is no stickiness after wiping.
 Apart from mineral, vegetable and animal oil, it is also highly
- effective in cleaning protein stains.

 Suitable as a cleaning solution for ultrasonic cleaning.

[Applications]

- Removal of oil stains from machines, spare parts, tools, factory equipment, etc.
- It is a cleaning solution for ultrasonic cleaners and high-pressure cleaners.
- For cleaning in kitchens and food factories
- It is a floor cleaner for bowling alleys. *Please use undiluted or diluted with water as necessary.

[Performance]

		irritation)
Cleaning Power (Without Impurities)	Operating Temperature	Room temperature







Environment Friendly



Bowling alley approach floor cleaner

000431	Bubbleless Clean e	20L x 1Box

- Not a dangerous goods according to the fire prevention law
- * Product is made to order.

Surface שכעפבטאכא Checking Agent 000431 304 3m G

Anticorrosive /Special Paint

Lubricant

Food Machinery

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Super Safety Floor Cleaner

Water-soluble cleaner



[Features]

- It is a cleaner that uses alkaline components to
- effectively remove oil stains.

 It hardly pollutes the water source. Emulsifier can decompose very well.
- Non-hazardous, non-flammable

[Applications]

- Factory and office floor cleaning
 Cleaning vehicles, machines for agriculture, various machines
- Clean oil that is stuck on machines, parts, various tools and appliances.

[Technical Information]

• Operating temperature: room temperature ~ 60°C



1			
(000468	Super Safety Floor Cleaner	18L x 1Tub

 Not a dangerous goods according to the fire prevention law

Parts & Brake Cleaner Series



[Features]

- A chemical cleaning agent with very low toxicity.
 Rapid dry type.
 Quick removes oily dirty from metal, mould and precision

- Quick removes only airly from metal, mould and precision instrument.

 This agent, itself, doesn't corrode any metal.

 Little influence on resin and rubber products.

 We have a great variety of cleaning products to meet every kind of needs.

[Applications]

- Cleanse anti-corrosive oil and cutting oil from metal parts, mould and tools.

 Removal of oil stains along with iron powder from hydraulic
- Removal of oil stains along with fron powder from hydraulii instruments or cylinders.

 Removal of grease stains from gearboxes and bearings.

 Removal of oil stains from hydraulic machinery or cylinders.

 Cleaning of precision machinery.

 Cleaning of oily dirty surrounding automobile, forklift and brake.

Cautions: Because it is flammable, don't use it while electric switch on.

Do not spray excessively onto rubber, plastic and paint surface.

lte	em No	Product Name	Volumetric capacity Packing	Clean Power	Drying speed	Influence on resin	Feature
1	000118	Parts & Brake Cleaner	420ml x 24pcs	*1	**	**	Little affect on resin and rubber
te	em No	Product Name	Volumetric capacity Packing	Clean Power	Drying speed	Influence on resin	Feature
2	000062	Parts & Brake Cleaner A	500ml x 24pcs	***	**	*	Standard specification, almighty type
lte	em No	Product Name	Volumetric capacity Packing	Clean Power	Drying speed	Influence on resin	Feature
3	000598	Parts & Brake Cleaner 840	840ml x 30pcs	**	**	***	Jumbo can, economy size
lte	em No	Product Name	Volumetric capacity Packing	Clean Power	Drying speed	Influence on resin	Feature
4	000600	Strong Parts & Brake Cleaner SUPER MAX	840ml x 24pcs	***	**	*	Strong cleaning power, 840ml Jumbo Can
Ite	em No	Product Name	Volumetric capacity Packing	Clean Power	Drying speed	Influence on resin	Feature
5	000601	Quick dry parts & Brake Cleaner SUPER MAX	840ml x 24pcs	*	***	***	Dry quickly, 840ml Jumbo Can.
	m No	Product Name	Volumetric capacity*Packing	Clean Power	Drying speed	Influence on resin	Feature
							401 (0000011 111
	000262	Parts & Brake Cleaner A 18L	18L x 1can	***	**	*1	18L can of 00062 liquid type. Refill spray set (00930) is available
	000262		18L x 1can	***	**	*1	
6	000262 em No		18L x 1can Volumetric capacity+Packing				

[Performance]

Applicable temperature Normal temperature





Regarding ★ mark

- *The comparison of cleaning power, drying characteristics and resin impact are based on solvent cleaning data of our company. The number of ★ indicates the power of each product. The more ☆, the stronger the power is.
- ◆The more ★, the stronger the cleaning power is.
- ◆The more ★, the quicker the product gets dried.
- ◆The more ★, the less affect resin. *The resin impact is different according to resin type, therefore, please test on unnoticeable place before use.





Strong Parts & Brake Cleaner SUPER MAX

⑤ No.000601 Quick dry parts & Brake Cleaner SUPER MAX





No.000262
 Parts & Brake Cleaner A 18L
 No.000265
 Parts & Brake Cleaner T 18L

Checking Agent

Surface

Lubricant

Food Machinery

Anticorrosive /Special Paint

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

23

2B

Surface

Checking Agent

Lubricant

Food Machinery

Anticorrosive

/Special Paint

Adhesive

Scribbling

Varnish

Mould Releasing

Spray

One-liquid

Zinc-rich

Primer Spray

Stainless Steel

Surface Treatment Welding Spatter

Antifouling Agent

/Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

2B Cleaner



Class II petroleums has a high flash point, and it is safety comparing with class I petroleum.
Low toxicity chemical cleaning agent.
Dry slowly, strong clean power and easy handling.
Reduces empty can waste by using refill spray bottle. (see page 17)

[Applications]

Cleans anti – corrosive or cutting oil from metal parts, mould and tool, etc.

Removes grease from gearbox and bearings.

Removal of oil stains from hydraulic machinery or cylinders.

Removal of oil dirty from chain.

Cleaning of precision machinery.

Cleaning of oily dirty surrounding automobile, forklift and brake.

Applicable temperature Normal temperature









Environment Friendly



000251	2B Cleaner	18L x 1can
000255	2B CleanerS	500ml x 24pcs

Strong Power 2B Cleaner

Powerful type 2 oil-based cleaner

Strong power







Environment Friendly

2B

[Features]

- Product capable of cleaning substances in the second category of oils that clean powerfully

 It can be used in conjunction with brake fluid. It is therefore most suitable to be used to clean brakes.

 The product has a higher flash point when compared type I oil. Therefore, there is a higher operational safety.

 It is a product with little smell.

 It can be used to remove oil paint.

[Applications]

- Used to clean ust preventive oil or oil used in the cutting process of metal parts, molds or various tools, etc.
 Used to clean grease stains on gear boxes or bearings.
 Used to clean oil stains on hydraulic equipment or cylinders.
 Used to clean oil stains on the chain.
 Used to clean precision equipment.
 Used to clean brake parts or equipment for automobiles or forklifts, etc.

[Performance]

Operating Temperature Room temperature



000355	Strong Power 2B Cleaner S	500ml x 24pcs

• Class 4, Class 2 oil type, Hazard level 3, 250 mL

M-1 Cleaner

Strong power degreasing cleaner, dry at medium speed



[Features]

- •A Strong power degreasing cleaner, get dried at medium
- speed.
 Actual capacity is 15% increase than normal 840 ml can

- Actual capacity is 15% increase than normal 840 ml can (Compared to our company's products)
 Glycolic brake oil gets mixed with dirty oil without separation.
 Not applicable to PRTR.
 Bottom-up spray is available, stainless nozzle sprays to every narrow openings.

[Applications]

- Cleaning of oily dirty on machine, equipment and parts.

 Cleans anti corrosive or cutting oil from metal parts, mould and tool, etc.
- tool, etc.

 Removes grease from gearbox and bearings.

 Removal of oil stains from hydraulic machinery or cylinders.

 Removal of oil dirty from chain.

 Cleaning of oily dirty surrounding automobile, forklift and brake.





000257	M-1 Cleaner 18	L	18L x	1can
000258	M-1 Cleaner 84	l0mI	840ml x	30pcs

Brake Clean

Strong power degreasing cleaner

- The most powerful cleaner among aerosol cleaners.

 Because it is not a quick dry type, penetrates and clearly deanses oilly dirty even with a small amount of cleaner.

 Glycolic brake oil gets mixed with dirty oil without separation.

 Not applicable to resin, rubber and paint surface because of its strong cleaning power.

 Able to remove oily ink.

[Applications]

- Degreasing cleaner for metal parts.

 Removes ally dirty from pipe or motor, etc.

 Cleaning of ally dirty surrounding automobile, forklift and brake.

 Removal of marking paint and magic ink, etc.

 Removal of oil dirty from chain.

[Performance]

Clean Power	Drying speed	Influence on resin
***	*1	not applicable

Applicable temperature Normal temperature





PRTR



000060	Brake Clean	500ml x 24pcs

Econo II Refill Equipment



An easy refill equipment for Parts Cleaner

[Features]

- An economy and easy refilling system. Only available for refilling Parts Cleaner.

 Green product, jetting out liquid by compressed air.

 00262 Parts & Brake Cleaner is not applicable to PRTR.

 Cleaner and air are refilled at the same time.

 Air can be filled up separately when only liquid is left in Spray Can.

 Special spray can set, which is made by light and pressure resistant steel is able to be refilled repeatedly.

[How to use]

- ①Set up the special cleaner agent and air hose at refilling machine.
- ②Put the changeover switch at [Agent + Air] side and the operation switch at [Filling up] side.
- ③For start the filling up operation fix the special filling bottle at the clamp plate.
- The indicator starts work and when it complete put the operation switch at [Detachment] side. Then you can detach the special filling bottle.
- *Please read the machine attached instruction manual for more details.

000932	Econo II Refilling Machine	1 machine
000933	Econo II Refilling Machine Stand	1 pc
000934	Econo II Refilling Can Set	3 pcs



Refilling Machine





000934 Econo II Refilling Can Set



000933 Fcono II Refilling Machine Stand

Environment

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Refill Spray Set

An easy refill equipment for parts cleaner

[Features]

- One can of Parts & Brake cleaner is enough for refilling 78 bottles.
 Green product, jetting out liquid by compressed air.
 Our cleaners (00265, 00257 and 00251) are not applicable to PRTR.

- PRIIR.

 Special spray can set, which is made by light and pressure resistant steel is able to be refilled repeatedly.

[How to use]

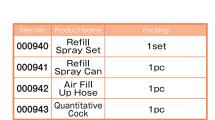
- ①Set up the Quantitative Cock at 18L can.
- *It is not possible use at screw cap type 18L can.
- ②Lay the 18L can as putting the transparent pipe to look down. Take off the cap of Spray Can and insert it at the transparent pipe.
- ③Push the black button, when the solution stop to flow push again the black button and take off slowly from the pipe.
- (5) Complete injecting air for 3 to 5 second from bottom of the Spray Can. *Please read the machine attached instruction manual for more
- details.

Refill Spray Set (Item No: 000940)

■includes

- ·1 pc of Spray Can,
- ·1 Air Refill-up Hose,
- ·1 Quantitative Cock and Handling,
- ·Instruction.









No.000265 Parts & Brake Cleaner T 18L



No.000257 M-1Cleaner 18L



No.000251 2B Cleaner 18L

Mould Cleaner











000119	Mould Cleaner	500ml x 24pcs
000619	Mould Cleaner 840ml	840ml x 24pcs



[Features]

- Product developed for clean mould.
 Simply removes cutting oil and powder generated during mould processing.
 Simply removes anti-rust or anti-corrosive wax
 Not applicable to PRTR.
 Superior cleaning power, rapid dry and high work efficiency.

[Applications]

- •Chemical Cleaner for removal of cutting oil and powder egenerated during mould processing.
 eRemoval of anti-corrosive agent and oily dirty for mould.
 Removes oil stains from machines, equipment and parts.
- [Performance]

Clean Power	Drying speed	Influence on resin		Applio
***	**	**1	ľ	

icable temperature Normal temperature

Please see page 16 regarding ★ mark.

/Special Paint

Anticorrosive

Surface

Checking Agent

Lubricant

Food Machinery

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich **Primer Spray**

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Deposit Cleaner for Injection Mould

Strong & cleaning agent for injection mould



- Dissolving & removing gummy and thin stain film stuck on mould during plastic mould injecting. Helps reducing inferior goods.
 Most suitable for easily stained resins, such as POM.
 Applies based on stain situation during moulding intervals or after
- Wolk.

 *Not able to be used when mould is warm. Applies when the mould temperature drops to room temperature.

 *For mould storage, rust proof is necessary.

[Applications]

- Used as gummy removing and deposit cleaning agent for injection mould.
 Degreasing cleaner for mould.

[Performance]

Clean Power	Drying speed	Influence on resin
***	_	not applicable

Applicable temperature Normal temperature

Please see page 16 regarding \star mark.



000126	Deposit Cleaner for Injection Mould	420ml x 24pcs

PRTR

cking Stripper

Strong release agent

全型洗剂

ガス・ヤニ

[Features]

- A strong stripping agent compounded of met-hylene chloride and micro-molecular cellulose.

 Aerosol spray, easy applied to stripping surface.

 Stripping and removal of burnt oil, paint coat and adhesive agent, etc.

 After stripping, stains can be cleaned by water.

[Applications]

- Stripping and removal of burnt packing of engine. (Cylinder Packing Ring and Cylinder Head Gasket)
 Removal of stubborn oil stains, burnt carbon, sealing compound
- •Removal of every kind of paint.

[Performance]



Please see page 16 regarding ★ mark.



000066	Packing Stripper	300ml x 24pcs



Packing Stripper F





Not enforced to be used with PRTR / adhesive remover, rubber and paint

[Features]

- This product is not a special protective hazardous substance and there is no methyl chloride.
- there is no methyl chloride.

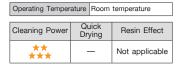
 Used to remove sealant, liquid gaskets and hard gaskets that is difficult to peel off. It can be used to remove stubborn oil stains, coating film and old glue stains, etc.

 It has powerful stain removal properties compared to other substances belonging to the group of special protective hazardous chamicals.
- chemicals.

[Applications]

- Peel and remove burnt engine gaskets. (piston rings and cylinder head gasket) Remove oil stains, soot, seals and stubborn adhesives.
- Wash all kinds of paints.

[Performance]



000158	F Packing Stripper	300ml x 24pcs

Class 4, Class 1 oil type, Hazard level 2, 165 mL

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

> Groove Antirust Spray

Joining Parts Treatment Agent

Air Duster

『ッキ』

Blow dust by dry air

[Features]

- Easily blows off dust, waste thread and trash just by spray.
 Simply removes the dust from every narrow opening.
 Global Warming Potential 140 (about 1/10 of HFC-134a)
 Contains special gas absorbent, bottom-up spray is available and liquid gas doesn't spout out.

[Applications]

Used for computer, OA equipment, phototypesetter, camera, lens, scanner, FD, CD, Bills & coins processing machine, pinball machine, sewing machine, knitting machine, optical fiber connector, Television, VTR, etc.

[Performance]

Applicable temperature Normal temperature



Blowing off dust of amusement machine

2 Wavs

000227	Air Duster	350ml x 24pcs

Electronic Parts Cleaner

Degreaser for electronic parts

[Features]

- Cleaning of circuit board, joint points and terminals.

 Removal of carbon of electronic contacts, greasy oil, etc.

 Not applicable to PRTR. A chemical cleaning agent with very low toxicity.
- •Quick dry, low influence on resin and rubber.

[Applications]

- Cleaning electric and electronic equipment, precision machines, general machines and parts, etc.

 Cleanses relay contact of various electronics, recovery of contact function.

 Cleaning of pin jack, volume, and connector, etc.

 Used as degreasing cleaner for metal parts, etc.

[Performance]

Applicable temperature Normal temperature

Attention: This product is flammable. Turn off electric power when spray at machines

> Don't spray a lot amount at rubbers, plastics and coated surfaces.



Item No	Product Name	Volumetric capacity Packing
000117	Electronic Parts Cleaner	420ml x 24pcs



Multi-Cleaner N / Display Cleaner



Anti-static agent compounded, multi-degreasing cleaner

[Features]

- Removes fingerprint, dirt from display panel and glass.
 Quick dry, no white slag or uneven wiping trace left on the surface.

 Preventing static electricity because of static agent
- compounded.

 •Don't get frozen even in winter or cold district.

 •Able to clean Oily Magic Mark.

[Applications]

Clearly cleans various screens, for example, the screen of TV, computer, car – navigation system and touch panel, etc. Cleans glass, window and mirror, etc. Cleaning of duplicator, OA equipment, exterior of electric appliances, milky – white plastic and glass. Cleaning maintenance for amusement equipment, magnetic head, cassette and IC card, etc.

[Performance]

Applicable temperature	Normal temperature



Maintenance cleaning of amusement machine

ш			
	000268	Multi-Cleaner N	500ml x 6pcs
l	000269	Display Cleaner	4L x 1bottle

Agent JIP ディスプレー用洗浄剤

Remove Stains Soap

Scrub Compound Cosmetic Grade Soap

--- IIIII

[Features]

Cosmetic Grade • Vegetable oil and fat pure soap
 Ouickly washes off obstinate oily dirt attached on your hands
 as it has excellent bubbling and rinsing property.
 Compounded with Hyaluronate Sodium, Royal Jelly Extract and
 Aloe Barbadensis Leaf Extract. (Moisturizing ingredient)
 Moisturizing your hands gently and finish up with clean and
 soft touch.



Removes obstinate oily dirt from your hands. (Scrub liquid hand soap for washing hands.)









RMS Hand Soap 16 kgs



000557	RMS Hand Soap 2.5 kgs	2.5kgs x 6bottles
000558	RMS Hand Soap 2.0 kgs	2.0kgs x 6bags(2bagsx3boxes)
000559	RMS Hand Soap 16 kgs	16kgs x 1box

Bio-Soap

Biodegradable scrub compound, cosmetic grade hand soap

ขนาดรีฟิล 2 กก.









[Features]

- Cosmetic grade liquid soap for washing your hands with scrub compounded.
 Contains biodegradable scrub particles.
 Biodegradable scrub particles deeply penetrate into obstinate dirt to wash the hands clearly.

 Moisturizing ingredients, such as hyaluronic acid, collagen, royal jelly extract gently care your hands.

 Different from other soap powder, it is a neutral liquid soap which doesn't cause the blockage in the drainpipe.

[Applications]

Cleans obstinate dirt stains on hands.









Bio-soap 16 kgs



Item No		
000521	Bio-soap 2.5 kgs	2.5kgs x 6bottles
000522	Bio-soap 2.0 kgs	2.0kgs x 6bags
000523	Bio-soap 16 kgs	16kgs x 1box



Surface Checking

Lubricant

Food Machinery

Anticorrosive /Special Paint

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich **Primer Spray**

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

AD ACE

Adhesive of synthetic rubber





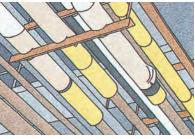
[Features]

- Aerosol spray with strong adhesion, quick dry.
 Do not penetrate into paper and cloth, so its adhesive force performs well.
 Excellent adhesive force with a little spray.
 Applicable to styrene foam.

[Applications]

- •Temporary adhesion for car lining.

[Performance]



000131	AD ACE	420ml x 24pcs

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

For pictures and posters.
 For all kinds of sewing paper patterns, such as appliqué and felt.
 For adhesion of all kinds of heat-insulting material, sound absorbing material of wool glass, styrene foam and urethane foam.

Applicable temperature	Below 60°C



RTV Gasket

Silicone solventless sealing agent

[Features]

•De-oxime single-fluid RTV rubber. •Reacts with vapor in the air and hardens into a rubber-like elastic substance at normal temperature. •Excellent at heat and cold resistance (-40°C \sim +240°C), oil/water

resistance and electrical insulating.

[Applications]

- For sealing of electrical and electronics equipments (terminal of. cables and motors, heat insulation of heaters and joints of refrigerator.)
 For sealing of window glass, sash, concrete and mortar, etc.
 As sealing agent for dust collecting equipment, ventilation equipment, heating /cooling duct.
 For connecting flanges' surface

[Performance]

	Applicable temperature	-40°C~240°C
--	------------------------	-------------



NX77 NX78 RTV Gasket RTV Gasket RTV Gasket White

Black

NX79 Red

Toxicity

PRTR

PRTR

000077	RTV Gasket White	100g x 24pcs
000078	RTV Gasket Black	100g x 24pcs
000079	RTV Gasket Red	137g x 24pcs

NK Steel 816

3

RTVXXXXY

Metal adhesive material

RTVガスケット

0 3

136

RTVガスケット

[Features]

- Metal adhesive putty, cutting off moderate amount by cut-knife.

 30 Minutes after application, grinding by the way of drilling, tapping and sanding.

 Repairs screw with stripped head and broken metal parts. Moreover, because top coating is available, it can also be used for repair of aero-parts. (Various usages)

 Bonding the places between metal and woodwork, metal and resin; repairing the places between metal and broken resin parts.
- •Top coating is available after reparation.

[Applications]

- Bonding or reinforcement of metal parts.
 Repairs metal parts, screws, or plastic parts except PP and PE.
 Repairing screws with stripped head.

[Performance]			
Applicable time	3 ~ 5 min		
Durometer Hardness(D) (25°C)	85		
Compression Strength(25°C)	70 N/mm²		
Shearing Strength(25°C)	7N/mm²		
Applicable temperature	-40°C~150°C		



000816	NK Steel 816	114g x 24pcs



Water Soluble Oil Processing Agent



Oil removal agent



[Features]

- Not cloudy. After sticking to the fat, it will accelerate the disintegration.

 It has excellent cleaning performance.

 91% Biodegradable (by OECD DOC method).

[Applications]

- Used for cleaning factory floors, manholes, oil pump floors,
- Can be used on concrete, asphalt (except new ones).

[Directions]

- Polishing
 Use Oil Get (oil absorbing sheet) to absorb oil stains
- as much as possible.
 Mix with 50 times water and pour on the stained spot before scrubbing.
 Rinse with water.
- ② Using a high-pressure car wash
- Use Oil Get (oil absorbing sheet) to absorb oil stains as much as possible.
 Mix with 50 times water and pour on the stained
- spot.

 3. Remove stains using a high-pressure car wash.

Item No	Product Name	Packing Volume • Packing
000410	Water Soluble Oil Processing Agent	4L x 24Bottles

• Not a dangerous goods according to the fire prevention law

Anticorrosive /Special Paint

Surface

Checking

Agent

Lubricant

Food Machinery

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

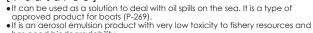
Groove Antirust Spray

Joining Parts Treatment Agent

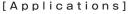
Mail Clean 505

Oil leak management solution

[Features]



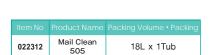
has good biodegradability.



Used to deal with oil spills.

[Amount Increased from Standard]

Type of Oil	Amount Used (compared to leaking oil)
Heavy oils A, B, C	20~25%
Quality light oils	20~25%



• Class 4, Class 3 oil type, Water soluble, Hazard





Environment Friendly

Oil Hunter

High efficiency oil adsorbent, natural fiber (cotton)

[Features]

The material of Oil Hunter is natural fiber (cotton).

High power adsorption, compared to polypropylene (PP).

Effecting on high viscosily and high temperature oil no matter it is mineral oil or animal and vegetable oil.

Calorific Value generated during incinerating is about half of PP fiber

•One piece of Oil Hunter can absorb around 2L of oil.

[Applications]

- Used as oil and water separator, flowing oil adsorption of drainage canal in factory, kitchen, and gasoline station.
 A absorbing agent when oils flow in an emergency.
 Oil subdivision, absorbing oil spilled when changing brake parts,

One sheet weight (Item No: 00985)	about 100g
Oiling quantity /g	18.23g



000985	Oil Hunter	100sheets (50cm x 50cm)
000987	Oil Hunter Roller	2rolls (50cm x 33m)

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

[Performance]

One sheet weight (Item No: 00985)	about 100g
Oiling quantity /g	18.23g

1			Volumetric capacity•Packing
	000985	Oil Hunter	100sheets (50cm x 50cm)
	000987	Oil Hunter Roller	2rolls (50cm x 33m)

Oil Get J

Oil absorbing sheet



Oil Get sheet



Oil Get roll

[Features]

- Excellent absorbency
 Absorbs from vegetable oil to mineral oil.
 Incompatible with water thus absorbing only oil
 It can be used to absorb oil floating on the surface or spilled on the floor.

[Applications]

- Separates oil in drains, manholes or oil-water separator
- Oil separation during machine maintenance
 Cleans the oil from the factory floor or the well in the
- garage.

 Absorbs oil leaking from machinery.



		Packing Volume	Packing Quantity
70160	Oil Get J Sheet Type	38 cm x 38 cm	100 sheets
70161	Oil Get J Roll Type	76 cm x 19 m	1 roll

• Solid flammable substance

Oil Get J for both Water and

Oil - water absorbing sheet



Oil Get for both Water and Oil sheet



Oil Get for both Water and Oil roll

[Features]

- Absorbs both water and oil.Absorbs from water-soluble cutting oil to vegetable oil,
- Excellent absorbency

[Applications]

- Absorbs cutting oil during start-up.
 Oil separation during machine maintenance
 Cleaning water oil from factory floors or wells in
- garages.

 Absorbs oil leaking from machinery.

[Absorbing Quantity]

*It is the company's actual measurement value. Actual absorption amount may deviate from this figure.
*Measurement method is a certified method.

	Weight	Adsorption Amount	Adsorption Amount
	Ratio	Per Sheet	Per Box
Heavy oil A	12.9	372.62 grams	37.3 kilograms
Heavy oil C	13.3	382.85 grams	38.3 kilograms
Vegetable oil	13.4	386.01 grams	38.6 kilograms
Engine oil	12.5	362.06 grams	36.2 kilograms
Tap water	13.1	378.48 grams	37.8 kilograms



	Item No	Product Name	Packing Volume	Packing Quantity
ĺ	70162	Oil Get J for both Water and Oil Sheet Type	38 cm x 38 cm	100 sheets
	70163	Oil Get J for both Water and Oil Roll Type	76 cm x 19 m	1 roll

• Synthetic flammable substance 4 kg (Item No 070158) • Synthetic flammable substance 5 kg (Item No 070158)

iCoat ET

Used with primer

2-liquid epoxy resin (solvent type)

It is a 2-liquid epoxy resin with good adhesion, water resistance, oil resistance, wear resistance. It can be applied with a roller or brush. It is durable and cost

Japan Paint Manufacturers Association regist	
Registration Number	I16003
Level of Formaldehyde Dissipation	F☆☆☆☆
Inquiries	https://www.toryo.or.jp/

Application Procedure

Remove water, oil and

using a cloth or cleaner.

debris from surfaces

Equipment Required • Gloves • Mask • Empty cans • Scales

Mixer
 Tape
 Brush
 Roller

Application





Features







Durable

Abrasion resistant Oil resistant

Features

Components in 1 set Quantity: 15 kg Mix ratio: 4:1 Standard application amount: 0.2 kg/m² Applicable surface area: 70-80 m²

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish Mould

Releasing Spray

One-liquid Zinc-rich **Primer Spray**

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

2. Mixing 1. Preliminary preparation

Mix solution A (main ingredient) and solution B (hardener) in the ratio of 4:1 by mass. Mix by a mixer within 1-2 minutes.



In difficult areas, use a brush to apply first. After

3. Surface application

that apply a thin coat evenly using a roller. roller.



Please consult if you want to apply over the paint of other products.

It cannot be applied over oil-stained surfaces, colored concrete, and acrylic.

*Use a thinner dampened cloth to wipe off the primer. If there is a paint that comes off, it is an acrylic type paint.

iCoat UT

2-liquid epoxy resin (solvent type)

Excellent in polishing and chemical resistance

Japan Paint Manufacturers Association registration	
Registration Number	I16003
Level of Formaldehyde Dissipation	F&&&&
Inquiries	https://www.toryo.or.jp/

Application Procedure

Equipment Required • Gloves • Mask • Empty cans • Scales

• Mixer • Tape • Brush • Roller

1. Preliminary preparation

Remove water, oil and debris from surfaces using a cloth or cleaner.



2. Mixing

Mix solution A (main ingredient) and solution B (hardener) in the ratio of 1:1 by mass. Mix by a mixer within 1-2 minutes.



3. Surface application

In difficult areas, use a brush to apply first. After that apply a thin coat evenly using a roller. **%**Use a medium stiff roller.



- Prime with E primer or ET.
- Please consult if you want to apply over the paint of other products.
- * It can be used with epoxy or urethane primer but cannot be used with acrylic.

Application





Features







Abrasion resistant Oil resistant Durable





Features

Components in 1 set Quantity: 10 kg Mix ratio: 1:1

Standard application amount: 0.15 kg/m² Applicable surface area: 60-70 m²

iCoat Repair Material For Concrete





Solvent-free epoxy resin, Repair material for concrete

[Features]

- It is a filler repair material for concrete.
- Uneven parts can be repaired.
- Using epoxy resin, so the adhesion is excellent.
 Approximately 2.4 m² (3-mm thick) can be used for 1-time. construction.

[Applications]

 Repair holes made from concrete floors such as factory floors, garages, parking lots, etc.



Before Construction

Please remove garbage, oil stains and water stains by using detergent to remove

	Company Palester	
	***	MAKE S
	NA.	
WWW SEED SEED SEED SEED SEED SEED SEED S		NAME OF THE PERSON OF THE PERS

After Construction

Mix the main ingredient, hardener and silica sand well with a mixer. Use a plastering trowel and press down with it when working in order not to cause gaps to complete the process.

Agent	

Surface

Checking

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

iCoat Quick Drying Repair Material for Asphalt

Included in the Set 2 kg of main ingredient + 1 kg of

hardener + 10 kg of silica sand

0.8 kg of resin + 4 kg of other

ingredients

Repair material for quick-drying asphalt surface

iCoat Repair Material For

Concrete

[Features]

006220

- It is a putty repair material for asphalt.
- 凹凸 can repair uneven parts.
 Because it is a fast-drying type, it can be used within 1 hour after coating. (in the case of room temperature 20 °C)

 Excellent adhesion to concrete
 It can be mixed without a mixer.

 Approximately 0.15 m² (10-mm thick) can be used for 1-time

- construction.

[Applications]

006222

 Repair holes made from asphalt floors such as factory floors, garages, parking lots, etc.

iCoat Quick Drying Repair



Before Construction

Please remove garbage, oil stains and water stains by using detergent to remove



After Construction

Mix the resin and other ingredients well. Use a plastering trowel and press down with it when working in order not to cause gaps to complete the process.

iCoat Quick-Drying Repair Material

It's a quick dry type. After 1-hour maintenance, it can be used immediately (type S, temperature 20 $^{\circ}$ C).

No mixer needed. It can fill holes on uneven surfaces including solving the problem of uneven floors.

	0	100

Product Number	Product Name	Temperature
006223	Type S	For 15-35 °C
006224	Type W	For 0-20 °C

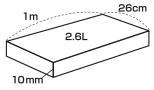
Application Method



Trowel

Components in 1 set

1 kg of resin + 4 kg of cement powder The volume that can use 1 set of this quickdrying repair material



	Temperature	Usable Period	Setting Time
Type S	35°C	Approx. 10 min	Approx. 40 min
	20°C	Approx. 15 min	Approx. 60 min
Type W	20°C	Approx. 10 min	Approx. 40 min
Type W	0°C	Approx. 20 min	Approx. 120 min

Adhesion to This Product

Adhesion when	ΕT	UT	EFR	ΑT
applied to surface	0	0	0	×

*For better adhesion, sanding is recommended.

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent Application Procedure | Equipment Required ● Gloves ● Mask ● Tape ● Trowel

1. Preliminary preparation



Remove water, oil and debris from the surface using a cloth or cleaner.

2. Liquid addition



Cut the bag and fill it with resin.

*Use the whole bag each time.

3. Mixing



Knead the mixture well within 1-2 minutes.

4. Surface application (Usage)



Apply with a trowel without creating gaps.

*Use up within 1-15 minutes.

Precautions for applying

- <Working environment>
- · Avoid using in the presence of fire.
- · Do not use at temperatures below 0°C.
- Wear a mask for organic solvents when applying iCoat, a quick-drying repair material, and use when there is ventilation.
- <Pre><Preparation of the workpiece>
- · Remove water, oil and other debris from the repair area.
- <Filling holes>
- · Do not use fire in materials storage or operation areas.
- · After mixing, it should be used up for the period specified above.
- · If the specified period is exceeded, do not use because the viscosity will be higher.
- After repair, used equipment must be cleaned (with thinner) immediately.
- · If sticking to the skin, immediately wipe it off. Wash with water or soap, etc.

Blue Varnish Spray / Aotack 50 / Aotack 500

PRTR

PRTR

[Features]

- Easy application spray with high adhesion.
 Coating film is 0.005mm thick. Suitable for clear and precise scribbling.
 Suitable to be applied to metal and glass surface.
 Rapid dry (within 1 minute), shortens waiting time.
 Aerosal type (Blue varnish spray) and brushing type (Aotack 50) are available.
 Pepulapishs Adtack 50 with Actack 500.

- *Replenishes Aotack 50 with Aotack 500.

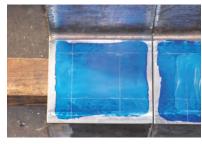
[Applications]

For scribbling on machines, electric instruments, devices, parts and metal surface with grinds.

[Performance]

Applicable temperature Normal temperature

I			Volumetric capacity Packing
	000101	Blue Varnish Spray	300ml x 24pcs



Item No	Product Name	Volumetric capacity • Packing
000102	Aotack 50	50ml x 48pcs
000110	Aotack 500	500ml x 24pcs

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

White-Pen Spray

Paint for line-drawing / White

500

[Features]

It is a white scribbling spray, easy & simple operation.
 Coating film thickness: 0.01mm. Covers uneven surface, finish up with clear and precise scribbling.
 Excellent adhesiveness, applicable to all kinds of metal surfaces and cartiern.

and cast iron

•Rapid dry (within 3 minutes); shortens waiting time.

[Applications]

•For scribbling onto machines, casting, devices and metal surface with dark color.

[Performance]		
	Applicable temperature	Normal temperature



Item No	Product Name	Volumetric capacity•Packing
000103	White - Pen Spray	420ml x 24pcs

Blue Layout Ink Remover

Removal of varnish Paint / Powerful degreasing spray

- Rapid dry and easy removal of scribbling paint.
 Spray type, easy access to any location.
 Washing agent for cleaning oils from metal parts and metal working products.

[Applications]

- For removal of BLUE VARNISH, AOTACK and WHITE PEN SPRAY.
 Washing agent for cleaning oils from metal parts, mould and
- •Cleaning of anti-corrosive agent applied on metals.

[Performance]

Applicable temperature Normal temperature





	Product Name	Volumetric capacity Packing
000104	Blue Layout Ink Remover	420ml x 24pcs
000604	Blue Layout Ink Remover 15L	15L x 1can

Blue Varnish Spray S

Not applicable to PRTR·Spray for line-drawing/blue

[Features]

- •With dark blue color, gentle on eyes. Spray type, easy and with a drk blue color, gentle on eyes. Spray type, easy simple operation.
 Safe to use. Harmless to the environment and human body.
 Film thickness is 0.005mm. Suitable for precise scribbling.
 High adhesion, Suitable for metal and glass surface.
 Rapid dry (within 1 minute); cuts time down on drying.

[Applications]

•For scribbling on machines, electric instruments, devices and metal surface with grinds.

[Performance]

Applicable temperature Normal temperature







Environment Friendly



Item No	Product Name	Volumetric capacity Packing
000151	Blue Varnish Spray S	420ml x 24pcs

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

White-Pen Spray S

Not applicable to PRTR·Spray for line-drawing /white

[Features]

- •It is a white scribbling spray, easy & simple operation.
 •Safe to use. Harmless to the environment and human body.
 •Excellent adhesiveness, applicable to all kinds of metal surfaces
- and cast fron.

 Film thickness: 0.01 mm. Covers uneven surface, finish up with clear and precise scribbling.

 Rapid dry (within 3 minutes); shortens waiting time.

[Applications]

• For scribbling onto machines, casting, devices and metal surface with dark color.

[Performance]

Applicable temperature Normal temperature









Item No	Product Name	Volumetric capacity Packing
000153	White-Pen Spray S	420ml x 24pcs

Blue Layout Ink Remover S

Not applicable to PRTR•Remover for varnish paint

[Features]

- Rapid dry and easy removal of scribbling paint.

 Safe to use. Harmless to the environment and human body.

 Powerful degreasing spray, easy access to any location.

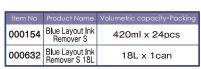
[Applications]

•For removal of Blue Varnish Spray S, White-Pen Spray S •Washing agent for cleaning oils from metal parts, mould, etc.

[Performance]

Applicable temperature Normal temperature















ONE BIO



Biomass additive for polypropylene (PP) and polyethylene (PE)

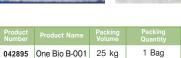
- ONE BIO B-001 is made from natural raw materials from 80% corn, reducing carbon dioxide emissions and contributing to the prevention of global warming.
- Simply mix with PP or PE pellets to increase biomass levels.
- Since it does not change the physical characteristics of PP material, injection molding machines can be used.
- If B-001 is added, the product is made with natural ingredients.
- If mixed with B-001 at 12.5%, it will pass the biomass usage standard called Biomass 10.
- It can be used as part of daily life for environmental measures (SDG, etc.).













Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Mould Releasing Agent

Used for plastic mould release

- Available for mould release of various thermoplastic resin, thermosetting resin, phenol resin and PET.
 Aerosol Spray. / Uniform Application. / Long Lasting.
 00124 and 00637 with different application are available for Secondary Process.



Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

One-liquid

Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent

Mould Release Agent High Viscosity Silicone Type

JIP

粘度

JIP

博物油脂系

JIP

变性



- Contains high viscosity silicone, excellent durability.
 Available for both thermoplastic resin and

[Features]

thermosetting resin.

•Used for rubber mould releasing.

•Excellent in thermal stability (Heat resistance: 200~250°C)

[Applications]

- Used for thermoplastic resin, such as, PE, PP, PS, ABS, A S, PMMA, PC, nylon, polyacetal.
 Applies to thermosetting resin, such as, phenol, urea, melamine, epoxy, unsaturated polyester,

Item No		
000122	Mould Release Agent High Viscosity	420ml x 24pcs

Mould Release Agent Low Viscosity Silicone Type







[Features]

- Contains low viscosity silicone, penetrates to any complicated places.
 Available for both thermoplastic resin and
- thermosetting resin.

 •Hardly any weld line occur.
 •Excellent in thermal stability (Heat resistance:
- 200~250°C)

[Applications]

- Used for thermoplastic resin, such as, PE, PP, PS, ABS, A S, PMMA, PC, nylon, polyacetal.
 Applies to thermosetting resin, such as, phenol, urea, melamine, epoxy, unsaturated polyester,

Item No		
000121	Mould Release Agent Low Viscosity	420ml x 24pcs

Mould Release Agent Lecithin Oil Type





[Features]

- A paintable mould release agent, vegetable lecithin as the major ingredient.

 No silicone oil contained.

 After releasing the mold, gluing, painting and printing can be processed with little effect on the original paint.

 Excellent in thermal stability. (Molding temperature: 330°C, Metal Mold temperature: 120°C)

[Applications]

- Mould release for thermoplastic resin like polyacetal, PE, PP, PS, ABS, AS, PMMA, PC, nylon, etc.
- Mould releasing agent applies to high temperature mould, such as Polysulfone, etc.

000124	Mould Release Agent Lecithin Oil Type	420ml x 24pcs

Mould Release Agent Fluorine Type R







JIP

[Features]

- No negative influences on electric contact point, suitable for electric parts molding.
 Good at release of rubber resin, silicone resin and fluororesin mould.
 Gluing, painting and printing are available when only small amount of this agent is needed.
- needed.

 •Excellent in thermal stability. (Heat-resistant: 200~250°C)

[Applications]

- Mould Release for plastic and various rubber.
 Applicable to thermoplastic resins, phenol resin, PEI, FRP, SMC.
 Used for releasing of silicone mould when producing of prototypes.

000637	Mould Release Agent Fluorine Type R	420ml x 24pcs

Denature Silicone Spray (High Viscosity Silicone Type)







[Features]

- From the main ingredient of Denature Silicone, after removing the workpiece from the mold, it
- rarely affects printing, adhesion or painting.
 •It can be used with thermoplastic and thermosetting resins.

[Applications]

- Used as a non-stick spray for plastic injection parts that are processed further.
 Used as a lubricant when inserting rubber hoses, etc.
- Used in places where lubrication, slippage is required, such as in a printing house, logistics

Item No		
00063	Denature Silicone Spray	420ml x 24pcs

Shuttle Protector FS







- •Because it contains both Fluorine and Silicone able to prevent mould from sticking, excellent mould releasing effect.
 Available for both thermoplastic resin and thermosetting resin.

[Applications]

- Mould release for thermoplastic resin, such as PE, PP, PS, ABS, AS, PMMA, PC, nylon and polyacetal etc.
- Mould releasing agent applies to high temperature mould, such as Polysulfone, etc.

000638	Shuttle Protector FS	420ml x 24pcs









Silicone mould

[Mould Release Agent Choice Sheet]

Mould Release Agent High Viscosity Silicone Type

	Heat - Resistant						
Silicone	200~250℃	Unavailable	0	0	0	×	

Mould Release Agent Low Viscosity Silicone Type

Major Ingredient						
Silicone	200~250℃	Unavailable	0	0	Δ	×

Mould Release Agent Lecithin Oil Type

Major Ingredient						Silicone, Fluorine
Vegetable Phospholipid	300℃	Painting & Plating is available	0	Δ	Δ	×

Mould Release Agent Fluorine Type R

Major Ingredient	Heat - Resistant					
Special Fluorine Compound	200∼250℃	Painting & Plating is available	0	0	0	0

Denature Silicone Spray (High Viscosity Silicone Type)

Major Ingredient	Heat - Resistant						
Silicone Fluorine Compound	200∼250℃	Painting & Plating is available	0	0	×	×	

Shuttle Protector FS

.,			Secondary Process	Mould Release Ability				
IV	lajor Ingredient							
Silicone	e Fluorine Compound	250℃	Unavailable	0	0	0	0	



Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

One-Liquid Rich Zinc Primer

Zinc powder anti-corrosion prime

[Features]

- •One-liquid aerosol type, zinc rich epoxy paint.
- While ultramicro zinc powder with super anti-rust property reacts on the iron surface electrochemically, its coated zinc surface is stabilized and transformed to insoluble film to strengthen anti-corrosion performance furthermore.
- •F seriese does not contain toluene and xylene. Environment Friendly product.
- Almost all lacquer can be painted on the zinc-coated surface.
 (Not applicable to phthalic anhydrous paint for it may cause peeling between layers).

[Applications]

- Applicable to ships, storage spaces, tanks, bridges and harbor installations.
- •Rust proof for railway equipment, electric generation and transmission facility, building construction, vehicles, etc.
- Repairs scratch on galvanized surface, burned stain or dirty spot, etc.
- Anti- rusting or repairs cutting plane, welding surface or scratches caused during installation operation.
- Used as anticorrosive & repair paint applied to galvanized areas around constructive scaffold.

Type 1: High-Concentration of Zinc

Zinc powder contained in dry paint film is over 84%.

Almost all lacquer can be painted on the zinc-coated surface. Anti-corrosion is a major purpose of zinc base coat (gray color).

Mainly used in shipyard, harbor installations, etc. or as a rust inhibitive primer of base coat.

Type 2: Shiny silver color

A repair paint with shiny silver color which similar to hot dip galvanizing.

Repair of damaged hot - dip galvanized coatings, or provide it with a shiny final coating on construction sites. Use after applying type 1 (high-concentration of zinc) to the base coat, will finish a rust proof and clear shiny coat.

The major usage of type 2 is to regain the clear coating, repair and color reproduction of the dull color like gray or black/gray occurred during hot – dip galvanizing to match the surrounding galvanized coat. Repairs cutting plane, welding surface in construction sites after application of type 1 (high-concentration of zinc)

Type 3: Environmentally conscious F serious

One liquid zinc rich Primer, not applicable to PRTR.

TX (toluene and xylene) free, ecological products, anti-corrosion and dry time are almost the same with the existing products.









Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

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Adhesive

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Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

One-Liquid Rich Zinc Primer







[Specification table]

Products Name	Zinc Coat	Klin-Zinc	Zinc Coat SA	Klin-Zinc L	Klin-Zinc HL	Klin-Zinc F	Klin-Zinc LF
Item No	000130	070977	000137	072351	072360	000453	000438
	TIP 130 PRO-UNE SD/201-H Zing Coof SD/20/M 2H	70977 PRO-1912 7007577‡ Kin zana	TIGOTO SA SIMIC AND CONSTRUCTION OF THE SA SIMIC AND CONSTRUCTION	TOPOTAL MALIDATE PARTIES	PUZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	MIP 453 POUR DEPT 4 Note of 2007 to the pour of 2007 to the 2007 to the pour of 2007 to the pour of 2007 to the pour of 2007 to the 2007 to the pour of 2007 to the 2007 t	MIN ZONE LE MIN ZONE LE BLESS - COCKET CERROLLE
Image of coating color *Note1							
Zinc powder in dry paint film	over 84%	over 77.5%	over 73%	over 10.9%	over 15.0%	over 77.6%	_
Specific gravity of liquids	1.75	1.25	1.58	0.93	0.98	1.60	0.88
Salt Spray Test	Over 500hours	Over 200hours	Over 400hours	_	_	Over 200hours	_
Outdoor Exposure	Over 2years	_	Over 2years	_	_	_	_
Film thickness *Note2	15~25µm	5~15µm	15~25µm	5~15µm	5∼15µm	15~25µm	5~10µm
Cross cut adhesion test	100/100	100/100	100/100	100/100	100/100	100/100	100/100
For last coating *Note3	0	×	×	×	×	×	×
Tacky dry / 20°C(standard)	About 5minutes	About 5minutes	About 10minutes	About 15minutes	About 10minutes	About 5minutes	About 5minutes
Hard dry	7hours	7hours	8hours	24hours	12hours	7hours	12hours
Coated area *Note4	0.4~0.6m	0.2~0.3m	0.4~0.6m	0.8~1.2m	1.5~2.0㎡	0.4~0.6m²	1.4~1.8m²
Heat Resistance (short period)	180℃	180℃	180℃	180℃	100℃	100℃	100℃
Heat Resistance (long period)	Below 150℃	Below 150℃	Below 150℃	Below 150℃	Below 80℃	Below 80℃	Below 80℃
Inner Capacity	450g	420ml	420ml	420ml	420ml	420ml	420ml

Inner Capacity	450g	420ml	420ml	420ml	420ml	420ml	420ml
Packing	24pcs/ctn						

*Note1 Print color may slightly differ from actual color.

*Note2 Standard of single coat. May slightly differ based on spray speed and

*Note3 Not applicable to phthalic anhydrous paint for it may cause peeling

between layers. *Note4 Coated area is calculated based on the film thickness from 30 to 40um. Big difference may occur by difference of application method.



Anti-rust repair for scaffording of construction



Glossy silver repair for hotdip galvaning

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

Super Stainbrite

Up to now, we use Nitric Fluorine Acid, Hydrochloric Acid, Sand Paper or blast to remove oxidized scale and temper color,

But these cleaning methods have some problems as follows: 1. Waste acid and fine particles deteriorate the work environment.

- 2. Beauty of stainless steel surface could be spoiled by fusion and grinding.
- 3. Causes time and cost loss.

Surface Checking

Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling

Varnish

Mould

Releasing

Spray

One-liquid

Zinc-rich **Primer Spray**

Stainless Stee

Surface Treatment

Welding Spatter Antifouling Agent

/Welding Support Product

Groove Antirust Spray

Joining Parts Treatment Agent Our Stainbrite and Stainlight Series can solve all these problems.



Super Stainbrite TK-230

It is designed to be easy to use.
There is a dedicated holder for a brush mop!

[Features]

- There is an adjustment knob so that it is convenient to select all kinds of applications. It is lightweight but powerful enough.

 Optimum application with low pressure allows
- use with brush mops.
- Can be used abroad It supports from 100 to 240 volts.
- A filter is installed on the back to reduce the damage of the device from mixed foreign matter.

Product Nu	mber	Model	
026105	i	TK-230	
	Input	Input voltage: 100~240 V	
Specifications	Output	Output power: 600 watts (Max.)	
	z z .put	Max AC: 26 A	

Machine Size	Machine Weight
175H×260W×360D (mm)	7.3 kg



*There is a built-in auto reset function.

Super Stainbrite TK-330

High power, with plug for connecting trowel electrodes. It is designed to be easy to use. Easy operation of all 3 electrodes.

[Features]

- It can be used with trowel electrodes, various types of mop brushes and attachments.
 High power (45A). It can handle a lot of burns.
- •It can be used abroad. It supports from 100 to
- A filter is installed on the back to reduce the damage of the device from mixed foreign

		Model		
026108	3	TK-330		
	Input	Input voltage: 100~240 V		
Specifications	Output	Output power: 100 watts (Max.)		
	J. J	Max AC: 45 A		

Machine Size	Machine Weight
175H×260W×360D (mm)	8 kg



*There is a built-in auto reset function

Brush

Brush mop



[Features]

- Powerful in removing black deposits in small spots such as narrow inner corners and crosswelded parts.
- When using the brush mode, the TK330 and
- TK230 are less prone to sparking.

 The brush is softer and easier to use. Therefore, it has the ability to work well.

Electrode

Trowel electrode



[Features]

- The area that can be worked in one time is large due to the wide surface area of the trowel efficient. Therefore, it has the ability to work well.
- Suitable for large workpieces
 Efficient cleaning performance of surfaces
 Compatible with TK-330, TK-5

071136	Brush Mop	5 Pieces
	·	

Product Number		
068670	Trowel Electrode (for 330)	1 Piece (5 m)
068671	Trowel Electrode (for 510)	1 Piece (5 m)

Stainless Steel Surface Treatment

Electrochemical Liquid





STAINBRITE Series (Neutral Electrochemical Liquid) and STAINLITE Series (Acid Electrochemical Liquid)

We have total 6 kinds of Electrochemical liquid and 2 kinds of Treatment Agent, which can be chosen to meet your various purpose and all requires. Safe to use, treat the burnt surface quickly and satisfy you with beauty finish.

Ele	ctrochemical Liquid	Stock No	Product Name	Packing	рН	Liquid Color	Features	Мс	ode									
		026054	NB-F 1L	1bottle			Neutral Liquid · Best Finish · Speedy & High Power	H Burnt Mark Removal	E Burnt Mark Removal	Surface Checking Agent								
	1377-1982 G 100 10	026053	NB-F 4L	1bottle	7.0	Yellow	●To gain the best performance, use it by combining with our Stainbrite TK-210. ●Form Passive Film	Н	Special	Lubricant								
		026052	NB-F 20L	1bottle			OF OTHER COSSIVE FIRMS	Polish		Food Machinery								
	* 10.250* TANKE	026133	EH-400 4L	1bottle	7.0	Purple	Put more emphasis on final finish Good at cleaning and final finish •Effluent treatment is not necessary.	H Burnt Mark Removal	E Burnt Mark Removal	Anticorrosive								
Neutrality	EHoo	026132	EH-400 20L	1bottle	7.0	raipie	•Most suitable for applying on the mate which difficult to be washed by water such as semiconductor.	H Polish	Special	/Special Paint								
lity	XF278-F	026138	EH-700 4L	1bottle			Put more emphasis on final finish & speed up	H Burnt Mark Removal	E Burnt Mark Removal	Cleaner								
	EHO STATE	026137	EH-700 20L	1bottle	7.0	Purple	 Effluent treatment is not necessary. Most suitable for applying on the material which difficult to be washed by water, such as semiconductor. 		Special	Adhesive								
	FB.	026149	FB-1 4L	1bottle				H Burnt Mark	E Burnt	Scribbling Varnish								
					7.0	Pale Green	2B ⋅ High effect on hot rolled steel Suitable for alternate current electrolysis passivation treatment. Neural high power	Removal Removal		Mould Releasing Spray								
	Annah Ma	026150	FB-1 20L	1bottle				Polish	Special E	One-liquid Zinc-rich								
	75-15-16-16-16-16-16-16-16-16-16-16-16-16-16-	025876	H-800 5kg	1bottle	- 2.0 Blue	- 2.0 Blu	- 2.0 Blu	2.0	2.0	2.0	2.0	2.0	2.0	Dluc	Suitable for electrolytic polishing and removal of stubborn burn mark. Almighty acid electrochemical liquid	Burnt Mark Removal	Burnt Mark	Stainless Steel
Þ	2800	025866	H-800 20kg	1bottle										2.0	.o Blue	Able to remove the burnt mark from the core of the reverse side of hot rolled steel Food-grade acid, safety in use.	H Polish	Special
Acidity		026153	H-900 5kg	1bottle			Acid electrochemical liquid, suitable for electrolytic polishing and removal of	H Burnt Mark	E Burnt Mark	Antifouling Agent /Welding Support Product								
	757294 1 1000 1 1000	026154	H-900	1bottle	2.0	Pale Blue							stubborn burn mark, high Quality Finish Able to remove the burnt mark from the core of the reverse side of hot rolled steel	Removal	Removal Special	Groove Antirust Spray		
			30kg				●Food-grade acid, safety in use. Removes dirty and rust from SUS(304)	Polish		Joining Parts Treatment Agent								
ⅎ	X22947	025873	C-100 4kg	1bottle	1.7	White	White	White	White	White	White	White	Simply removal of rust and dirty 5 to 30 minutes after application. (Paste, no dripping.)					
Treatment	100	025872	C-100 20kg	1bottle			 After treatment, the surface can be simply washed by water or just wiping by cloth. Not applicable to Toxicity Law. 											
nt Age		026021	Neutralizing Cleaner	1bottle	13		Cleaner for neutralizing acid waste											

13

14

1bottle

Yellow

4kg

20kg

025862 Cleaner

Neutralizing

Cleaner for neutralizing acid waste

Spray the diluted liquid onto acid waste

the waste liquid can be disposed.

liquid(usually dilute to 5~10times), then

Klin Spatter

•Klin Spatter is used to prevent adhesion of unwanted spatter, generated in welding processes. These anti-spatter agents are helpful in reducing the unnecessary labor costs involved removal of spatter and improving the finish of the welded article. It is pollution-free, safe, easy – operation,

economy, efficiency and rust-proof.

•A massive range of product items, including big drum and aerosolized products, all of which have excellent spatter release effect.

•Klin Spatter series prevent rust within short period.



Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich **Primer Spray**

Stainless Steel Surface Treatment

Groove Antirust Spray

Joining Parts Treatment Agent

[Features]

Available to be overcoated by paint because a hardened film forms on the welding surface. It is not necessary remove Klin Spatter film before

Klin Spatter Overcoat Available Type

painting.
•Generally used as anti-spatter agent for SS(Iron). ot able to be applied to stainless's conducted with electrodepositon or plating *Please pretest when special paint is to be



Product	Product Name	Packing	Packing
Number		Volume	Quantity
020550	Klin Spatter ES-55 F	420 ml	12 pcs

Class 4. Class 1 oil type. Hazard level 2, 210 ml

Product Number			
020533	Klin Spatter E-32 3kg	18 kg	4 cans
020532	Klin Spatter E-32 18kg	18 kg	1 can
020530	Klin Spatter E-32 198kg	198 kg	1 pc
020555	Klin Spatter ES-55	198 kg	12 pcs
020558	Klin Spatter ES-55	420 ml	12 pcs
020557	Klin Spatter ES-55 18kg	18 kg	1 can
020752	Klin Spatter Z 18kg	18 kg	1 can
020742	Klin Spatter GW-2 18kg	18 kg	1 can

• Not a dangerous goods according to the fire prevention law

Klin Spatter Overcoat & Removal OK Type

300/500/WN-L/W-2000/W-1000

[Features]

• After welding, either overcoat or removing is available.

•Can be used to both SUS and SS.

Electrodepositing or plating can be conducted after removing the coating film.

*Please pretest when special paint is to be applied.



020704 Klin Spatter WN-L		420ml 12 pcs					

Class 4, Algohol type, Hazard level 2, 210 ml

Product Number			
020613	Klin Spatter 300 3kg	3 kg	4 cans
020612	Klin Spatter 300 18kg	18 kg	1 can
020611	Klin Spatter 300 198kg	198 kg	1 pc
020636	Klin Spatter 500 18kg	18 kg	1 can
020687	Klin Spatter W-2000 18kg	18 kg	1 can
020685	Klin Spatter W-2000 198kg	198 kg	1 pc
020692	Klin Spatter W-1000	1 L	6 pcs
020691	Klin Spatter W-1000 18kg	18 kg	1 box
020690	Klin Spatter W-1000 198kg	198 kg	1 pc

• Not a dangerous goods according to the fire prevention law

Klin Spatter Removable Type

AW/AX/AX-2/M/S



[Features]

•After welding, coating film is easy to be

Generally used as anti- spatter agent for SUS

(Stainless).

Paint will come off if the coating film is not removed.

*Pginting is available after removing coating



Product Number	Product Name	Packing Volume	Packing Quantity
020489	Klin Spatter AW	420ml	12 pcs
020485	Klin Spatter AX-2	420ml	12 pcs

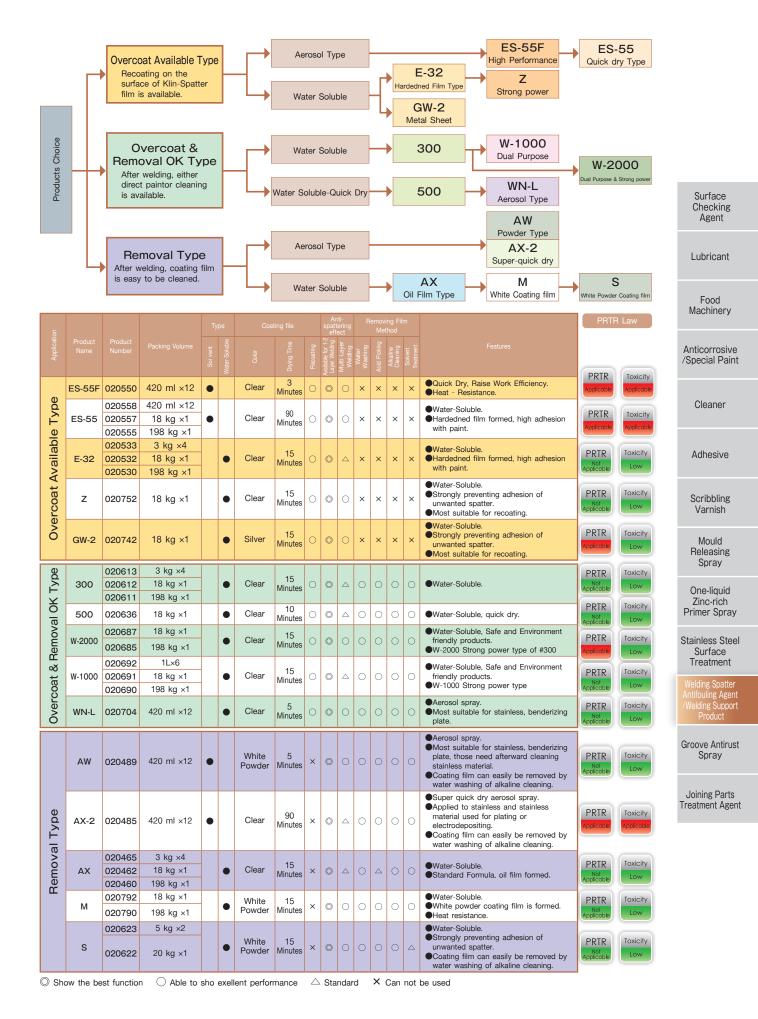
• Class 4, Class 1 oil type, Water soluble, Hazard level 2, 210 ml

(20489) • Class 4, Class 1 oil type, Water soluble, Hazard level 2, 210 ml (20485)

Product Number		Packing Volume	Packing Quantity
020465	Klin Spatter AX 3kg	3 kg	4 cans
020462	Klin Spatter AX 18kg	18 kg	1 can
020460	Klin Spatter AX 198kg	198 kg	1 pc
020792	Klin Spatter M 18kg	18 kg	1 can
020790	Klin Spatter M 198kg	198 kg	1 pc
020623	Klin Spatter S 5kg	5 kg	2 cans
020622	Klin Spatter S 20kg	20 kg	1 can

Not a dangerous goods according to the fire prevention law

Welding Spatter Antifouling Agent / Welding Support Product



Welding Spatter Antifouling Agent / Welding Support Product

Torch Klin

•Solve the weak point for all automatic, semi-automatic welding machine and new era welding robot.

A new anti-spatter agent used for torch, guarantees high efficient and high precise processing.

•Solid type, oil-base, water-base, ceramics compounding Torch Klin are



Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich **Primer Spray**

Stainless Steel Surface Treatment

Groove Antirust Spray

Joining Parts Treatment Agent

Torch Klin



[Features]

- Greasy type.Melting Point: Over 50°CApplies when nozzle is hot.

[Performance]

[1 01 101	manoo
Category	Solid
Outward Appearance	Green paste
Specific Gravity	0.90

ltem No	Product Name	Volumetric capacity•Packing
027913	Torch Klin 300g	300g x 10pcs
027912	Torch Klin 15kgs	15kgs x 1can

PRTR

PRTR

PRTR

PRTR

PRTR

Toxicity

Toxicity

Toxicity

Torch Klin Super



[Features]

- •Oil base agent.
- Oll Dase agent.
 Used for robot
 Special oil which has heat resistant and removing properties prevents spatter from attaching to inside nozzle.
 Nozzle tip doesn't get clogged.
 Also available to positioners and tools.

[Performance]

Category	Oil base
Outward Appearance	Light brown transparent liquid
Specific Gravity	0.91

Item No		
027939	Torch Klin Super	220ml x 12pcs
027943	Torch Klin Super 4L	4L x 1pc
027942	Torch Klin Super 18L	18L x 1can

Torch Klin KS



[Features]

- Water soluble agent.Powerful type.Available for a cold nozzle.

[Performance]

Category	Water Soluble
Outward Appearance	Light brown transparent liquid
Specific Gravity	1.01

Item No	Product Name	Volumetric capacity•Packing
027922	Torch Klin KS	18kgs x 1can

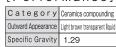
Torch Klin 21



[Features]

- •Suitable for high temperature and high current service torch.
- Excellent adhesion.
 The most suitable for continuous service of robot welder.

[Performance]



Item No		
027973	Torch Klin 21	220ml x 24pcs

Torch Klin RS-L



[Features]

- Long term effect because of special ceramics compounded.
 Because its film is removable, no
- clogging occurs.

 Able to be applied to a cold nozzle.

[Performance]

=	-
Category	Ceramics compounding
Outward Appearance	Grayish white powder
Specific Gravity	1.30

Item No	Product Name	Volumetric capacity•Packing
027937	Torch Klin RS-L	420ml x 12pcs

Weld Pliers 350/500

Pliers for CO welding



[Features]

- A special steel is used for the blade, if used for cutting wire
- (especially stainless steel), the cut is continuous.

 1 piece can be used for 8 things.

[Applications]

- 1) Take the tip in out.
- 2 Cut the wire.
- 3 Use as a hammer.
- (4) Take the nozzle in and out.
- (5) Take the pipe in and out.
- 6 Pull the wire.
- ⑦ Remove debris from both the outside and inside the nozzle.
- ® Remove debris from the nozzle tip.



Item No	Product Name	Packing capacity
070962	Weld Pliers 350	10pcs
070960	Weld Pliers 500	10pcs

Liner Klin









Non-organic conduit cleaner



[Features]

- Not classified as organic
- Does not contain fluorocarbon and chloride solvents.

 Not strong smell.

[Applications]

- Clean the conduit.
 Clean the outlet.
- Clean the transfer roller.
- Clean machine parts and machine tools and equipment.
- Clean the platen.



Conduit tube cleaner

[Features]

- Don't contain Fluorocarbon and Chlorine solvents.
- Strong cleaning power.
 Aerosol spray.

[Applications]

- Used for cleaning Conduit Tube.Cleanse outlet guide.
- Cleanse feedroller.
- Cleanse machine parts and tools.
 Cleanse printing press.

Item No		Volumetric capacity • Packing
020326	Liner Klin F	420ml x 12pcs

• Class 4, Class 1 oil type, Hazard level 2, 210 ml

Item No		
025226	Liner Klin S	420ml x 12pcs

• Class 4, Class 1 oil type, Hazard level 2, 210 ml

Taiboron D-100 / Taiboron SD-1





Adhesive

Surface

Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Scribbling Varnish

Mould Releasing Spray

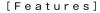
One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Groove Antirust Spray

Joining Parts Treatment Agent

Dross adhesion inhibitor for laser cut / Antireflection agent for laser



- Dross adhesion inhibitor for carbon dioxide laser cut whose major ingredient is graphite.
 Water soluble, even application without any repelling.
 Do not erode aluminum, stainless, etc.
 Can be easily washed by water after use.
 Clean working environment for no bad odor and smoke.

[Applications]

- •It is used to prevent adhesion of dross by applying to the reverse side of laser cut.
 •It is used to prevent light reflecting by applying to the surface side
- of laser cut.
- Prevents readhesion of spatter.

[Performance]

	D-100	SD-1
Outward Appearance	Black Liquid	Black Liquid
Specific Gravity	1.12±0.02	0.94±0.02
Inflammability	None	16℃



Item No	Product Name	Volumetric capacity Packing
027533	Taiboron D-100	5kgs x 1can
027539	Taiboron SD-1	420ml x 12pcs

PRTR

Klin Bead CB

TIG welding accelerator

レーザーカット ドロス付着防止剤

[Features]

- Prevents blowhole.

 Improves melting and helps deep penetrating into weld zone.

 Able to obtain a satisfactory welding effect even if black scale or
- Able to obtain a satisfactory welding effect even if black scale or rust exists.
 Pretty penetration bead is obtainable even high current welding.
 Quick dry (about 1 minute), welding is able to be done soon after Klin Bead CB is applied.
 Coated layer can be simply removed by water, solvent, acid cleaning or air blower.

[Applications]

- Prevents blowhole generating during TIG welding process, such as welding of mild steel, bonderizing plate or stainless steel, etc. Promotes deep penetrating into weld zone.

 *Please prefests when TIG welding for titanium steel or aluminum.

[Performance]

	· · · · · · · · · · · · · · · · · · ·	
Outward Appearance	Grayish white	
Specific Gravity	1.21	
Inflammability	None	



020813	Klin Bead CB	400ml x 12pcs



Klin Weld F series

Corrosion inhibitor for groove weld

•Rust on the groove weld may cause a lot of problems, such as weld defect, low steel commercial value, etc.

- Klin Weld prevents groove surface from corrosion during the period of edge preparation to welding processes.

 Generally anti-corrosion agent applied to a groove weld have to be removed before welding, but Klin Weld F Products Series is able to be used during welding process, therefore, able to save time.
- Klin Weld F Products Series is a long term anti rust agent, able to be used for thick and repeat coating.

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirus Spray

Joining Parts Treatment Agent

Klin Weld

Corrosion inhibitor for groove weld/Clear color



[Features]

Welding is available without removal of coating layer.
Painting and re-coating are available.
Beveling area is visible after applying.

PRTR

PRTR

[Performance]

Outward Appearance	Transparent Yellow Liquid	Salt Spray Test	72Hours
Dry to touch	about 5 minutes	Dry Hard	12~24Hours
Film thickness	5∼12µm	Coated area	10~20m²/L

Item No		
020425	Klin Weld YE-F/420mL	420mL x 12pcs
020426	Klin Weld YE-F/4L	4L x 1pc
020427	Klin Weld YE-F/18L	18L x 1can

Klin Weld SE-F

Corrosion inhibitor for groove weld/Silver



[Features]

- •Welding is available without removal of coating layer.
 •Superior corrosion resistant formula.

[Performance]

Outward Appearance	Silver	Salt Spray Test	120 Hours
Dry to touch	about 3 minutes	Dry Hard	12~24Hours
Film thickness	5∼12μm	Coated area	15~25m²/L

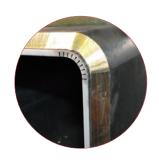
020355	Klin Weld YE-F/420mL	420mL x 12pcs
020353	Klin Weld YE-F/4L	4L x 1pc
020352	Klin Weld YE-F/18L	18L x 1can

Corrosion inhibitor for groove weld

Klin Weld

Corrosion inhibitor in grooved welds

- Rust in grooved welds can cause a number of problems, such as weld defects, deterioration of steel values, etc. Klin Weld protects groove surfaces from corrosion during edge preparation to welding.
 Normally, the corrosion inhibitor applied to the grooved weld must be washed off before welding, but Klin Weld YE and Klin Weld SE can also be used during the welding process. Therefore, it can save time.
 Klin Weld H is a long-term rust inhibitor. It can be used with thick coatings and repeatability is required.



PRTR

Klin Weld H

KLIN WELD

CONTROL III

Corrosion inhibitor for groove weld/Long term rust proof

[Features]

Removes coated layer by burner before welding.
Long term rust proof is available by repear coating.

[Performance]



Item No	Product Name	Volumetric capacity•Packing
020363	Klin Weld H/4L	4L x 1pc
020362	Klin Weld H/18L	18L x 1can



Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

HITROCK B



HITROCK B is applied onto high strength bolt joints for construction, promoting the occurrence and stabilization of rust.

Concerning coefficients for high strength bolts, according to Standard Specifications of Construction Work(JASS-6) and Technical Guides for Steel - Frame Work, mill scale should be removed from bolt joint to check rust occurrence. Generally, this kind of rust is to be generated from a steel frame which is left outside for a long time after removal of mill scale. Rust occurrence depends on a geographical or weather condition, which may cause civil engineering or construction work delay.

Therefore, there are a lot of rust promotion agents adopted, but among them, some problems occurred such as insufficient or excessive rust occurrence, otherwise rust still develops even after re-connecting joints.

HITROCK B dose not have the above problems! After HITROCK B is applied onto joint surface, rust occurs over a few hours. Rust generated by HITROCK B has stability, does not develop excessively.

Surface Checking Agent

Lubricant

Food Machinery

Anticorrosive /Special Paint

Cleaner

Adhesive

Scribbling Varnish

Mould Releasing Spray

One-liquid Zinc-rich Primer Spray

Stainless Steel Surface Treatment

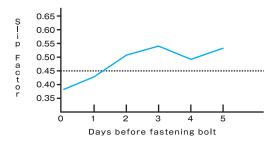
Welding Spatter Antifouling Agent /Welding Support Product

Groove Antirust Spray

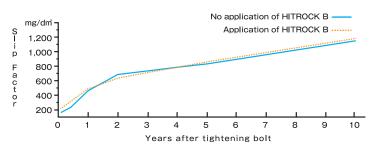
Joining Parts Treatment Age

Slip Factor Test

Days Neglected	0	1st day	2nd day	3rd day	4th day	5th day
Slip Factor	0.362	0.437	0.513	0.535	0.501	0.530
Temperature ℃	_	6	5	8	5	5
Humidity	_	24	39	25	35	51



	1Month	6Months	1Year	2Years	5Years	10Years
No coating (mg/dm²)	14	115	340	533	756	1018
HITROCK B coating (mg/dm)	141	263	370	505	761	1041



*The amount of rust generated is the same after 1 year. Not affected by HITROCK B any more

[Features]

Only need to apply, no worry of noise or dust.
Slip Coefficient is above 0.45.
First applies HITROCK B onto the joint surface and keeps rusting for 48 hours, then Fastening the both is available.
Corrosion doesn't expand because of its stability.

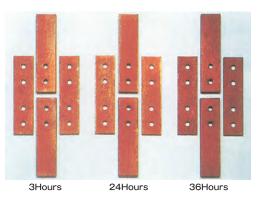
[Performance]

Outward Appearance	Yellowish brown transparent liquid		
Specific Gravity	1.0		
Inflammability	None		
PH	2~3		
Dry to touch	20minutes (20°C)		
Standard Application Quantity	50~100g/m²		

*At the temperature below 5 °C, humidity over 80%, Slip coefficient may not be guaranteed sometimes.



Item No	Product Name	Volumetric capacity•Packing		
153581	HITROCK B	18L x 1box		







Friction Up Zn



A treatment agent for friction joint surface of high strength bolts

Friction Up Zn is a treatment agent used on high strength bolt friction joint surface in the field of hot dip galvanizing construction.



Friction Up Zn is a treatment agent used on high strength bolt friction joint surface in the field of hot dip galvanizing construction. JASS-6 published by Architectural Inst of Japan approves Blasting Treatment, but in order to raise work efficiency and improve stabilization of slip strength we developed Friction Up Zn.

Hot dip galvanizing that has a lot of advantages, such as resisting corrosion, maintenance free, etc. is adopted by many construction structures, but Slip Strength of High Strength Zigzag Bolted Friction Joints is not enough. Friction Up Zn only need to be simply applied to Bolt Joint Surface, then enough Slip Strength can be secured, unlike Blasting treatment, no need of special skill, no worry of noisy and without moving products, saving masking time.

[Features]

- High working efficiency can be secured because no need of blasting equipment, moving product is not necessary.

 Applies only, no worry of noisy and dust.
 No influences on corrosion resistance of plating.

- •No need to measure surface roughness.

[Performance]







014453	Friction Up Zn 20kg	20kg

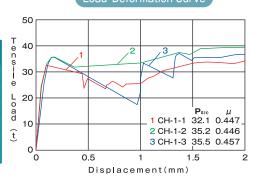
Slip Factor Test

High Strength Bolt F8T M20×80

Mark		Exposure Time	N _{1(t)}	P _{s(t)}	Slip Factor		Sliding
		Exposure rime			Test Results	Average	Noise
	1	48 Hours	35.8	32.1	0.447	0.450	Have
CH-1	2		37.8	35.2	0.446		None
	3		38.8	35.5	0.457		Have
	1	48 Hours	38.8	35.6	0.459	0.429	Have
CH-2	2		37.9	32.1	0.423		Have
	3		38.3	31.1	0.406		Have

N₁: Adding up of Initial bolt installation. P_s: Slip Load.

Load-Deformation Curve





Axial force drop curve during sliding ×100 å 95 force 90 Re1.1(%) 85 1 CH 1 1 91 11 2 CH-1-2 89.56 3 CH-1-3 87.88 80 10 20 30 Tensile Load (t)

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