

We help our customers visualise the future of smart manufacturing



Sunny Falcon new materials(GuangDong) Co.,Ltd

Escort for enterprise production





Sunny Falcon new materials(GuangDong) Co.,Ltd

 Address: No. 8, HuaNan Road, East of BaiShiXia, Fuyong Street, Baoan District, ShenZhen city, GuangDong province China

www.sinofalcon.com

1.0 Our technology is constantly innovating. Content may be updated without prior notice. Please refer to the actual product or the latest information.







More efficient equipment, cleaner environment, and more energy-efficient lubrication



ABOUT US









The brand was started in the 1993 with the trademarks Sino Falcon and Falcon, sino which stands for Chinese. Falcon is the falcon. Together is the Chinese eagle, can fly the world's Chinese eagle. Over the past 40 years of reform and opening up, China has become the workshop of the world. This Eagle not only flies in the field of Manufacturing in China, but also flies out of China. Wherever there is induststrial manufacturing, there is this eagle. The eagle grew up with Chinese reform and opening up, and flew all over the world along with it.

Sunny Falcon new materials (GuangDong) Co., Ltd adhering to the brand belief of "excellent, pragmatic, honest", has developed products that can comply with the technological changes in equipment and manufacturing process. It always based on the research and development concept lubrication. finished product assembly lubrication and other products, to pro the enterprise, enhance competitiveness. the recognition and trust of well-known enterprises. Here I would like to thank Toyota, Nissan, Volkswagen, China Railway Vehicle, Foxconn, Flextronics, Delta, Goodbaby... Such as the long-term patronage of industry leaders.













Hundreds of patent certficates and software copyright



Industry Leading
Industry-leading position and
high product market share

Our advantage

*SGS ISO9001 International quality system authencation enterprises

*SGS ISO14001 International environmental systm authencation enterprises

*products comply with the European ROHS environmental directives

*products comply with the European REACH environmental directives

*products comply with the European PAHS material testing

*The product has passed VOC, halogen-free testing and seven apple test reports

*senior fine chemicals application elite team

*Young, professional pre-sales service team

*Cooperate with domestic and foreign educational institutions to develop new applications

Rust inhibotor series



S-101A



S-102



S-102C



S-102D



S-102F



S-103C



S_103E



S-104



S-350



S-350A

Mould release series



S-230A



S-270A



S-280A



S-290A



S-280B



S-280C



S-280D



S-300D



S-300E



S-300F



F-113 Semi-permanent release agent

Temperature resistant thimble lubricant series



S-205



S-205B



S-205D



S-205F



101 Spray grease





S-206Tapping oil

Cleaning agent series



S-520



S-520A



S-530



S-530E



855



855A

Rust inhibitor series











Strong rust resistance



Excellent corrosion protection



Strong drainage function

Product description

Falcon S-101A white high-quality rust agent is formulated with refined mineral base oil, compounded rust and corrosion inhibitor additives, and antioxidants. It offers excellent rust and corrosion prevention properties and a long rust-proofing period.





Strong rust resistance



Excellent corrosion protection



Strong drainage function

Product description

Falcon S-103C and S-103F are green long-term rust inhibitors that produce a thicker oil film and provide an anti-rust period of more than three years.

Product model	S-10 [°]	1A
Appearance	Units	Typical data
Test items	1	White ointment
Density@15°C	g / ml	0.67
Copper corrosion	/	1a
Rust salt spray test	h	>120
Humidity test	h	>480
Performance characteristics		
Rust prevention	The anti-rust period is long and c or more;	an provide an anti-rust period of 5 years
Environmental adaptability	Excellent resistance to moisture, a protection in harsh environments	acid, alkali and salt spray, suitable for meta ;;
Effect of use	Good adhesion, will not fall off due to metal impact or thermal expansion and contraction;	
Corrosion resistance	Good corrosion resistance, which can effectively ensure the smoothness and precision of the metal surface;	
Environmental protection	Complies with EU RoHS environm and harmless.	ental directive, environmentally friendly

It is suitable for the rust and corrosion prevention of ferrous metals, and is also suitable for the rust and corrosion prevention of items in offshore or marine environments.



Product model	S-103C	S-103F
Test items	Units	Typical data
Appearance	1	Green ointment
Density@15°C	g / ml	0.67
Copper corrosion	/	1a
Rust salt spray test	h	>24
Humidity test	h	>48
Performance characteristics		
Rust prevention	Long rust-proofing period, provi	ding 3 years or more of rust-proofing.
Rust-proofing Cleaning	The rust-proof oil film is easily re cleaning agents.	moved, reducing the need for
Environmentally friendly	This product complies with the EU RoHS directive and has passed Phthalates and PAHS testing.	
Non-toxic and harmless	Non-toxic and harmless to the hu operators.	ıman body; low odor, easily tolerated by
High pressure resistance	The tank can withstand high pres eliminating potential safety hazar	sure, ensuring safe use and effectively

Suitable for rust and corrosion prevention of all metals and non-metals. Applications include metal workpieces, molds, mechanical parts, precision instruments, chains, locks, bearings, etc.

It is particularly suitable for mold rust and corrosion prevention.











Falcon S-102 transparent rust inhibitor creates an extremely thin, soft, fingerprint-resistant film with a rust protection period of over three years.

Falcon S-102E, a vaporizing rust inhibitor, is carefully blended with carefully selected refined base oils and high-quality rust inhibitors. When sprayed on a workpiece, it quickly forms a transparent, rust-proof film. This rust inhibitor does not contaminate molds and offers a rust protection period of approximately one to three months.





No-clean oil film



Special photosensitive layer



Excellent rust prevention



Compliant with environmental directives

Product description

Falcon S-106 wax-type anti-corrosion agent is formulated with refined mineral oil, waxy rust preventative additives, and solid film-forming agents. It offers unique no-cleaning and rust-preventing properties. It contains a special photosensitive component that facilitates observation under specialized light sources. It is non-toxic, non-corrosive, and complies with the EU RoHS directive.



Product model		S-102	
Test items	Test method	Units	Typical data
Rust salt spray test	ASTM B117	h	>36
Humidity test	ASTM D1748	h	>250
Copper corrosion	ASTM D130	/	1a
Internal pressure	GB/T14449	MPa	≤0.8
Ejection rate	GB/T14449	%	≥98
Performance characteristics			
Rust prevention	Excellent rust prever	ation effect and high cost-	effectiveness.
Rust cleaning	Easy removal of the a	nti-rust oil film, reducing t	he need for cleaning agents
Environmental protection	Environmentally friendly product, compliant with the EU RoHS directive, and passed Phthalates and PAHS testing.		
Non-toxic and harmless	Non-toxic and harml to accept.	less to the human body; lo	w odor, easy for operators
High pressure resistance	The tank can withstar eliminating safety ha	nd high pressure, ensuring zards	safe use and effectively

Recommended Apps

Suitable for rust and corrosion prevention of all metals and non-metals. Applications include metal workpieces, molds, mechanical parts, precision instruments, chains, locks, bearings, etc.

It is particularly suitable for mold rust and corrosion prevention.

Product model		S-102E	
Test items	Test method	Units	Typical data
Copper corrosion	ASTM D130	/	1a
Rust salt spray test	ASTM B117	h	>2
Internal pressure	GB/T14449	MPa	≤0.8
Ejection rate	GB/T14449	%	≥98
No-cleaning	Anti-rust for one mo	nth, no cleaning required.	
Environmentally friendly	This product complies with the EU RoHS directive and has passed Phthalate and PAHS testing.		
Non-toxic and harmless	Non-toxic and harml to accept.	ess to the human body; lo	w odor, easy for operators
High pressure resistance	The tank can withsta eliminating potentia	and high pressure, ensuring I safety hazards.	g safe use and effectively



Product model	S-10	6
Test items	Units	Typical data
Physical state	1	Pale yellow suspension
Film forming state	1	Flexible white wax film
Neutral salt spray	h	Minimum 24 hours
Density	kg/l	0.89
Flash point (Closed cup)	°C	0
Performance characteristics		
Rust prevention	Excellent rust prevention perform protection for one year or more.	ance, providing long-term indoor rust
Product safety	Non-toxic and harmless to human	ns; low odor, easily tolerated by operators.
Effectiveness	The rust-proof oil film does not require cleaning; it will fall off automatical when heated above 80°C, reducing the need for cleaning agents.	
Lubricity	The rust-proof layer has lubricity and can be used for lubrication or mold release of certain materials.	
Environmental protection	Compliant with the EU RoHS dire	ective, environmentally friendly.
Recommended Apps		

Suitable for rust prevention of ferrous metals such as molds or some other metal parts or equipment.





Eliminates unusual noises



Removes moisture



Highly cost-effective



Provides smooth lubrication

Product description

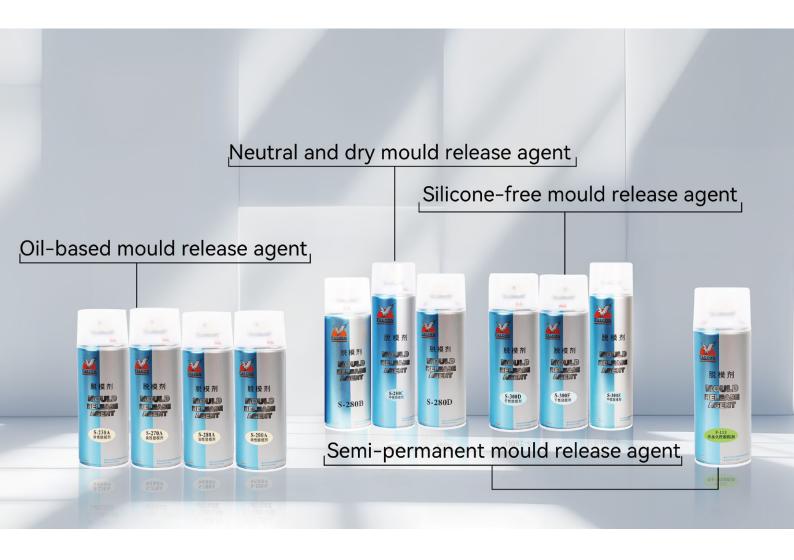
Falcon S-350 multi-purpose lubricant and anti-rust inhibitor is formulated with refined mineral oil, special rust preventative additives, and high-efficiency penetrants. It offers rust removal, rust prevention, lubrication, dehumidification, anti-wear, and cleaning properties. It is non-toxic, non-corrosive, and complies with EU RoHS directives. It is suitable for short- to medium-term rust prevention for periods ranging from six months to one year.



S-3	50
Units	Typical data
/	Liquid
mm2/s	3.5
kg/l	0.78
°C	-12
°C	45
Rapid penetration, efficient rust r	removal.
Efficient cleaning, longer rust pre	evention period.
Environmentally friendly product, compliant with EU RoHS and other environmental directives.	
Non-toxic and harmless to the hi to accept.	uman body; low odor, easy for operators
The tank can withstand high pres safety hazards.	ssure, safe to use, and effectively eliminate
	Units / mm2/s kg/l °C °C Rapid penetration, efficient rust of the second control of the

Suitable for lubricating, rust-proofing, cleaning, dehumidifying, and removing rust from most metal parts, including molds. Its anti-static and low-conductivity properties can address electrical shorting caused by moisture. Its anti-static and low-conductivity properties make it suitable for precision instruments, integrated circuit boards, and electrical components.

Release agent series





















Product model	S-280	0A
Test items	Units	Typical data
Color	1	Colorless transparent liquid
Density@15°C	g / ml	0.69
Copper corrosion	1	1a
40°CKinematic viscosity	cSt	250
Internal pressure	MPa	≤0.8
Ejection rate	%	≥98
Performance characteristics		
Demolding times	High demolding times, high cost-	effectiveness, and effective cost savings.
Lubrication	Excellent lubrication performance, better mold protection, and extended mold life.	
Compatibility	Good compatibility with most plastics.	
Short-term protection	Excellent rust and corrosion resistance, providing short-term protection for molds.	
Product safety	Mild odor, non-toxic, and safe for	operators.

Recommended Apps

Suitable for demolding various plastic materials, including ABS, PC, PE, PS, PP, PVC, NYLON, ACRYLICS, and SAN. It is particularly suitable for processes requiring frequent demolding. It is not recommended for processes requiring no oil stains on the workpiece surface after demolding, or for processes requiring spray painting, silk screen printing, electroplating, or hot stamping.

Product description

Oily release agent is a high oil content silicone release agent made from highly active special siloxane and additives.



Product model		S-280D	
Test items	Test method	Units	Typical data
Color	Ejection rate	1	Transparent water white
Gas	/	/	tasteless
Density@15°C	ASTM D1298	g / ml	0.70
Kinematic viscosity40°C	ASTM D445	cSt	250
Copper corrosion	ASTM D130	/	1a
Internal pressure	GB/T14449	MPa	≤0.8
Ejection rate	GB/T14449	%	≥98
Demolding durability		performance, no impact or ess and effective cost savir	
Lubricity	Excellent lubricity, be	tter mold protection, and	extended mold life.
Compatibility	Good compatibility w	ith most plastics.	
Short-term Protection	Excellent rust and co for molds.	rrosion resistance, providi	ng temporary protection
Non-toxic	Mild odor, non-toxic,	and harmless to operator	health.
High pressure resistance	Excellent safety perfo burst pressure meet	ormance, and the spray ca national standards.	n's deformation and
Environmental protection	Complies with the EU	J RoHS directive and is PA	HS and PFOS compliant.
Recommended Apps			

Suitable for demolding various plastic materials, including ABS, PC, PE, PS, PP, PPS, PVC, NYLON, ACRYLICS, and SAN. Excellent demolding performance, no greasy marks on the finished product surface, making it particularly suitable for demolding transparent products.

Product description

 $Falcon S-280D S-280E \ super dry \ mould \ release \ agent \ is \ a \ release \ agent \ prepared \ from \ high-purity \ special \ raw \ materials \ with \ strong \ film-forming \ ability.$







S-300E 干性脱模剂

S-300F 干性脱模剂

Product description

S-300D 干性脱模剂

F-113 Semi-permanent mould release agent is formulated from hydrocarbon solvents and silicone film-forming agents. When sprayed on the mold surface, it quickly forms a dry film, providing excellent mold release for rubber products.



Product model		F-113	
Test items	Test method	Unit	Typical data
Color	Visual inspection	/	Colorless and transparer
Density@15°C	ASTM D1298	kg/l	0.71
Internal pressure	ASTM D130	MPa	≤0.8
Ejection rate	GB/T14449	%	≥98
Performance characteristics			
Uniform film formation	Fast evaporation rate	e, uniform film formation	
Low oil stains	Minimal oil stains on after demolding	the workpiece surface	
Good lubricity	Excellent lubrication performance, better mold protection		
Mild temperature	Mild odor, easy for o	perators to accept	
Recommended Apps			

Recommended for demoulding of rubber products and PU materials.

High temperature resistant thimble lubricant series





FALCON

Product model	S-2	05
Test items	Test method	Typical data
Physical state	/	Liquid
Color	/	Light yellow, transparent
Gas	/	Oily smell
Kinematic viscosity40°C	mm2/s	25.5
Density15°C	kg/l	0.840
Pour point	°C	-24
Flash point (Closed cup)	°C	-11
erformance characteristics		
Anti-wear	Excellent anti-wear and extreme components and extend equipm	pressure properties effectively protect ent life.
High-temperature resistance	Excellent high-temperature resistance, no oil film breakdown, and no cok	
Synthetic ester	Fully synthetic ester lubricant, long service life, and low carbon deposits.	
Environmental protection	Compliant with the EU RoHS dir testing, ensuring environmenta	ective, and passed REACH and PAHS I friendliness.

Suitable for lubricating components such as die ejectors, bearings, and guide rails, as well as for tapping, threading, drilling, and threading of ferrous and some non-ferrous metals.

Product description

S-205 Oil thermostable thimble lubricant is formulated with a fully synthetic ester lubricant and anti-wear and lubricating additives. It offers excellent lubricity, anti-wear, and cooling properties, preventing the oil film from breaking or sintering at high temperatures. It is heat-resistant up to 300° C, effectively protecting the ejector and extending its service life.



Product description

S-205B Neutral thermostable thimble lubricant is formulated with refined synthetic oil and anti-wear and lubricating additives. It offers excellent lubricity, anti-wear, and cooling properties, strong adhesion, a uniform, non-bleeding oil film, and resists coking at high temperatures. Withstanding temperatures exceeding 200°C, it effectively protects ejectors and extends their service life.



Product model	S-2	05B
Test items	Test method	Typical data
Physical state	/	Liquid
Color	/	Colorless and transparent
Gas	1	Special
Kinematic viscosity40°C	mm2/s	1.08
Density15°C	kg/l	0.759
Pour point	°C	-25
Flash point (Closed cup)	°C	-12
Performance characteristics		
Effectively extended service life	Excellent lubricity, wear resistance effectively protect components a	ee, and high-temperature resistance and extend their service life.
High-temperature resistance	No coking or sedimentation occurs even at high temperatures.	
High pressure resistance	The tank withstands high pressures, ensuring safe operation.	
Environmentally friendly	Compliant with the EU RoHS dir ensuring environmental friendlin	ective, and REACH and PAHS-complian ness.
Recommended Apps		

Suitable for lubricating components such as die ejectors, bearings, and guide rails, as well as for tapping, threading, drilling, and threading of ferrous and some non-ferrous metals.



S-205D Dry thermostable thimble lubricant is formulated with a high-molecular-weight synthetic ester and an extreme-pressure lubricant. It offers excellent lubricity, anti-wear, and cooling properties, strong adhesion, a uniform oil film that resists loss, and resists coking and oil film breakage at high temperatures. It is heat-resistant over 200°C, effectively protecting ejectors and extending their service life.



Product description

S-205F wet-type molybdenum disulfide lubricant is a high-performance, fully synthetic, high-temperature resistant lubricant based on a special, high-quality synthetic oil with added molybdenum disulfide, antioxidants, and other additives.



Test method / / / mm2/s kg/l	Typical data Liquid Yellow and transparent Solvent smell 1.08 0.759
/ / mm2/s	Yellow and transparent Solvent smell 1.08
/ mm2/s	Solvent smell
mm2/s	1.08
kg/l	0.759
°C	-25
°C	-12
Excellent anti-wear and extreme components and extend equipments	pressure properties effectively protected ent life.
No coking or sedimentation occurs even at high temperatures.	
The tank can withstand high pressures and is safe to use.	
Compliant with the EU RoHS die PAHS testing, ensuring environr	
	Excellent anti-wear and extreme components and extend equipm No coking or sedimentation occur. The tank can withstand high pre

Suitable for lubricating components such as die ejectors, bearings, and guide rails, as well as for tapping, threading, drilling, and threading of ferrous and some non-ferrous metals.



oduct model	S-205F	
Test items	Test method	Typical data
Physical state	/	Liquid
Color	/	Black liquid-proof
Gas	/	Oil smell
Kinematic viscosity40°C	mm2/s	140
Density15℃	kg/l	0.840
Pour point	°C	-24
Flash poin (Closed cup)	°C	-11
erformance characteristics		
Low volatility	Low evaporation loss effectively reduces lubricant loss and lowers operating costs.	
Adhesion	The oil has good adhesion and easily forms an oil film, maintaining good lubrication even under high-temperature conditions.	
Excellent anti-wear	Excellent anti-wear and extreme pressure properties reduce wear and extend equipment life.	
Maintains cleanliness	Resists carbon and coking, ensuring long-term cleanliness.	
Environmentally friendly	Complies with the EU RoHS directive, is non-toxic, non-corrosive, and environmentally friendly, ensuring safe use.	

It can be widely used in forklifts, overhead conveyors, transmission system components, and drive mechanisms in refineries. Its excellent adhesion and non-drip properties make it suitable for overhead conveyor chains or other applications where conventional lubricants are not suitable due to the risk of contamination from dripping. Furthermore, this product is easy to use, reducing maintenance time and costs, and can be used on conveyor systems up to 250°C.



101 Spray Butter is formulated with high-quality lubricating and rust-proofing compound additives and a synthetic high-temperature base oil. It utilizes particle-refining spray technology, making it easier to use and producing a smoother coating.



Product description

S-206 Tapping oil is a highly concentrated lubricant formulated with active extreme pressure and corrosion inhibitor additives. It is particularly suitable for heavy-duty machining of ferrous metals, including drilling, tapping, and reaming of stainless steel and other high-alloy steels. It is not suitable for machining or lubricating non-ferrous metals such as copper and copper alloys.



Product model	S-101	
Test items	Test method	Typical data
Appearance	Visual inspection	Brown paste
Four-ball method	kg	80
FOUI-Dall Metriou	kg	500
Abrasion test	mm	0.5
Salt spray test	Hour	≥48
Performance characteristics		
Effective friction reduction	Utilizes a composite lubricant to effectively reduce friction and extend component life.	
Rust and corrosion prevention	Excellent rust and corrosion resistance effectively prevents metal rust and corrosion.	
Adhesion	Excellent adhesion, ensuring the oil film resists detachment and breakage	
Low odor	Low odor, making it easy for operators to accept.	
Environmentally friendly	This product is environmentally friendly and complies with the EU RoHS directive.	

Suitable for rust prevention, corrosion protection, and lubrication of metal and non-metallic materials. It is particularly well-suited for lubricating metal components such as bearings, chains, and gears in harsh environments. Recommended operating temperature range: -50°C to 300°C.



Product model	S-206	
Test items	Test method	Typical data
Appearance	Visual inspection	Brown liquid
Proportion20°C	kg	1.16
Flash point(opening) /°C	kg	200
Performance characteristics		
Highly concentrated antiwear agent	Contains highly concentrated extreme pressure antiwear agent to improve workpiece surface finish.	
Atomized particles	Utilizes atomization and refinement technology to directly penetrate cutting tool edges, extending tool life.	
Improved efficiency	High levels of active additives improve processing efficiency and reduce scrap.	
Recommended Apps		

 $\label{thm:continuous} \textbf{Suitable for drilling, tapping, threading, reaming, etc. of difficult-to-process metal materials}$

Cleaning agent series





Falcon S-530 environment friendly cleaner is formulated with refined hydrocarbon solvents and surfactants. It has strong cleaning ability, fast evaporation rate, and is compatible with all metal materials and most non-metallic materials.



Product description

855 cleaner is made from high-quality solvent oil. It has strong cleaning power, evaporates quickly, and is compatible with metals and most non-metallic materials.



Test items	Test method	Typical data
Density15°C	g / ml	0.66
Appeatance	/	Colorless and transparent
Internal pressure	MPa	≤0.8
Ejection rate	%	≥98
Performance characteristics		
Highly concentrated anti-wear agent	Contains no harmful ingredients such as chlorine and benzene. This environment friendly, harmless product effectively prevents occupational illnesses.	
Excellent solubility	Excellent solubility, quickly removes oil, dust, static electricity, and other vcontaminants.	
Clean evaporation	Moderate and clean evaporation.	
Non-corrosive	Will not corrode metal surfaces.	
Excellent compatibility	Compatible with most plastics.	
Safety standards	Excellent safety performance, with spray can deformation and burst pressure exceeding national standards.	
Environmental protection	Complies with REACH, ROHS, and PAHS regulations.	

It is suitable for cleaning oil stains on metal surfaces, especially for removing anti-rust film, dust, oil stains, static electricity, etc. from molds. It is also suitable for cleaning most plastic surfaces.



roduct model	855	855A
Test items	Test method	Typical data
Density15℃	g / ml	1.45(855)/0.69(855A)
Appeatance	/	Water white and transparent
Internal pressure	MPa	≤0.8
Ejection rate	%	≥98
Performance characteristics		
Excellent solubility	Excellent solubility, quickly removes oil stains, dust, static electricity, etc.	
Clean evaporation	Fast and clean evaporation	
Improved efficiency	Moderate and clean evaporation	
Non-corrosive	Will not corrode metal surfaces	
Safety standards	Excellent safety performance, spray can deformation and burst pressure exceed national standards	
Environmentally friendly	Complies with ROHS environmental protection directives	

 $Suitable\ for\ removing\ anti-rust\ oil\ film,\ dust,\ oil\ stains,\ static\ electricity,\ traces,\ etc.\ from\ ferrous\ or\ non-ferrous\ metals.$





Product model	S-520	
Test items	Test method	Typical data
Density15°C	g/ml	0.89
Appeatance	1	Colorless and transparent
Halogenated	mg/kg	Not detected
Internal pressure	MPa	≤0.8
Ejection rate	%	≥98
Performance characteristics		
Free of harmful substances	Contains no chlorine, benzene, or n-hexane, making it a green, environmentally friendly, and harmless product that effectively prevents occupational illnesses.	
Excellent compatibility	Excellent descaling capabilities and compatibility with most plastics.	
Clean evaporation	Rapid and clean evaporation.	
Highly safe	Excellent safety performance, with the spray can's deformation and burst pressure exceeding national standards.	
Recommended Apps		

Suitable for removing plastic or rubber resin residues left on molds during molding and for softening and removing paint.

Product description

 $Falcon \,S-520 \,Specific \,cleaning \,agent \,is \,formulated \,with \,high \,quality \,solvents \,and \,surfactants.$































