

RUSTX USA

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RUST-X®

REST WITHOUT RUST

Complete Packaging

& Corrosion Prevention Technology



MANUFACTURED *1



IN THE USA



*1 - Disclaimer: Not all products are manufactured in the USA but some are

From the Management

people who **strive for excellence**



The Saga

RUST-X is the market leader of Corrosion Prevention Solution globally & manufacturing over 500 products in three manufacturing locations globally. Rust-X caters to over 10,000 customers with a presence in all major states and cities of India.

The group is in existence for more than 30 years. HiTech is the fastest growing Rust Preventives manufacturer in the Indian industry with growth rates of more than 100% year on year for the last 4 years.

Our solutions work for the customer in the first recommendation which is due to our technical knowledge and experience.

RUST-X
REST WITHOUT RUST

Ensuring You to
Rest without Rust



Global Manufacturing
USA, France, Italy & India



500+
VCI Products



200+
Channel Partners



100%
Growth in Turnover YOY



10,000+
Customers



Brands
Our Brands - Rust-X,
Frisk, AquaFlush,
Doctorrust



REACH/ROHS
Compliant



100%
Customer Retention



Global
Business Partners

Snapshot of Products

all products are **made in house**



VCI Paper



VCI Plastics



Steel Mills



Industrial Lubricants



RP Oils



Nail-less Boxes

Understanding client needs

Ensuring compliance with us

our **SMP VCI Technology**

Rust-X patented technology of speedy moisture passivation has helped automotive, aerospace, engineering and heavy metals industry a great deal.

SMP VCI acts within seconds and lasts upto 15 years. Previous industry standards of 6-8 hours of VCI action resulted in non de-activation of moisture and acceleration of corrosion when goods were packed

our **solutions**

Rust-X manufactures wide range of lubricants, washing solutions, rust removers, packaging, knock down wooden pallets, VCI corrugated boxes, 8 colour printed films, desiccants, emitters and even corrosion engineers to the clients.

This enables customer perceive and rely on us for corrosion prevention and packaging needs ultimately providing a complete solution to the client.

our **rust doctors**

Rust-X has over 600 + products in its range. Our continuous R&D based on client needs has helped evolved this extensive range of products with the help of our on site and laboratory rust doctors,

Technically qualifies rust doctors are 250+ in numbers across the globe and due care has been taken to train and develop their skills to propose right solutions and products.

Our path for Growth



Doing better every time is what keeps us on track to achieve our goals.

Our aspiration to bring Delight to our customers is the key to our growth story

Innovation in product and manufacturing technology and providing solutions is our key factor for sustenance of revenues and reputation



Roadmap to Growth

- 2005 Product acceptance in many OEM's. Only 30 products in Rust-X range
- 2008 Rust-X lubricants and over 50 various grades of Rust Preventive Oils added to offer a complete Corrosion Prevention and Packaging Solution to clients
- 2010 Rust-X starts warehousing and manufacturing Globally
- 2014 Rust-X become sole suppliers to many OEM's and has over 600+ products in its range catering to over 5000+ customers globally. Rust-X has over 750,000 sq ft of manufacturing and storage space and is present in 35 countries that covers all continents.

Our Clients

for whom we care

RUST-X®
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OEM

Original equipment manufacturers



Steel Mills

Heavy Equipment, Power, Turbines



Auto Components

Heavy Equipment, Power, Turbines



Infrastructure

Heavy Equipment, Power, Turbines



Government tier 1 & 2

Heavy Equipment, Power, Turbines

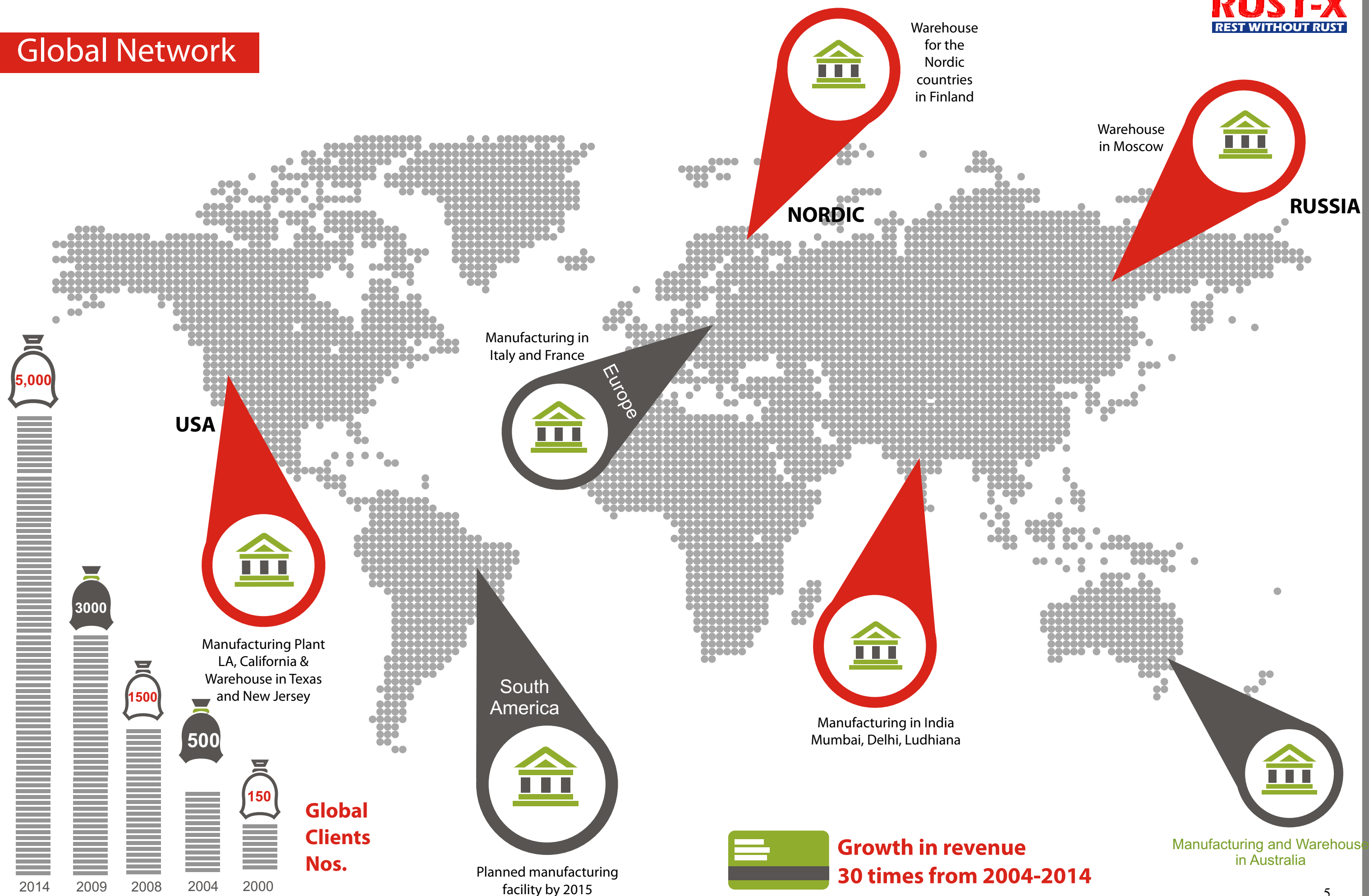


Revitalising client relationship

OVER 5000+ CLINETS GLOBALLY

- **92%** of our clients that started business since inception are still our customers
- **87%** of our clients suggest that our solutions are better performing than competition

Global Network





Manufacturing Plant



Manufacturing plant for films, papers, desiccants, emitters and warehouse for industrial lubricants



45,000 sq ft

California, USA



Corporate office



2,500 sq ft

Delhi NCR, India



Manufacturing plant for films, papers, desiccants, emitters and warehouse for industrial lubricants



70,000 sq ft

Delhi NCR, India



Manufacturing plant for films, chemicals and industrial lubricants



80,000 sq ft

Mumbai, India



Manufacturing plant of co extruded films, lubricants, papers, desiccants, emitters and engine oils



250,000 sq ft

Punjab India



Warehouse/Office

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Nordic warehouse for VCI films, papers, desiccants emitters and lubricants.



40,000 sq ft

Nordic Region, Europe



Manufacturing plant of co extruded films, monolayer films and warehouse for lubricants



50,000 sq ft

Lyon, France



Manufacturing plant for chemicals and warehouse for films, papers etc.



35,000 sq ft

Australia



Manufacturing plant for films, papers, desiccants, emitters and warehouse for industrial lubricants



100,000 sq ft

Italy



Warehouse for films, papers, lubricants and other products for the Middle East



40,000 sq ft

Dubai



The Real VCI Test

is in **your hands**, myths of VCI unfolded



VCI regulates the pH value of the packaging.
pH Red litmus solution can be poured inside the VCI film . The colour of the pH liquid inside the VCI film will change immediately from red to blue/green indicating the neutralizing action of VCI against acidic environment
When you order next make sure to do this test to validate your purchase

Ph Value inside VCI Packaging



1 2 3 4 5 6 7 8 9 10 11 12 13 14

Ask us for Free VCI Test Kit

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VCI SMP TECHNOLOGY

VCI SMP technology passivates the metal's surface as well as deactivates the humidity surrounding the metal components. They have sufficient vapour pressure to evaporate and travel to mix with the humidity and essentially reach the surface of the metal. 20% of the VCI Chemical reacts within 6 hours and balance in 5-15 years

- Physical hydrophobic molecular barrier deposited on surface
- Vapour phase deactivation of moisture
- Passivation of electron flow between anode and cathode
- Regulation of pH

What is Corrosion?

Corrosion is chemical action which causes destruction of the surface of a material by oxidation or chemical combination. Corrosion Engineering has become an important area of expertise in Engineering Industry.

There are several ways of combating corrosion of which most contemporary, cost effective and advanced, clean and with least environmental and health hazards is the usage of Volatile Corrosion Inhibitors also known as VCI Technology.

Causes of Corrosion



Container Rain

Changes in temperature during the sail causes sudden evaporation and condensation called as Container rain ranging upto 100% humidity inside container. Acidic sea humidity causes reaction with metal at much faster rate than components lying in factory floor. Corrosion Engineering makes it possible to decide, use and implement a complete system to counteract the adverse sea conditions.

Plastics are H₂O Permeable

LDPE, HDPE etc have porosity of water also termed as Water Vapour Transmission Rate (WVTR) to the extent of 4gms/sqm/24 hours.

To make this full proof chemicals need to be present inside the packaging to continuously react with moisture and neutralize it to inhibit breathing of packaging.



Humidity in Boxes

Starch present in boxes is hygroscopic. It absorbs moisture present in the atmosphere to a tune of 15-60% of the weight of corrugation. Under ambient conditions, the moisture levels absorbed in corrugation are always more than 15%. Once the temperature in the container rises, the moisture is released to surrounding metal (being cooler).

VCI PLASTICS

using SMP VCI Technology

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VCI Sheets and Rolls



VCI sheets and rolls are available in various sizes and can be used for wrapping large or small components or equipments and for covering corrugation / honeycomb layers

Product Code - VCI 701

Thickness 50 to 500 microns
Tube Sizes 2" to 200" tube
Sheet Size Any
Colour Blue / Yellow / Transparent
Printing Upto 8 colours

VCI 2D Bags



VCI 2 bags are used for the packaging of small components which are further put into pallets or boxes.

2 D bags are loaded with SMP technology VCI chemicals to prevent corrosion and abrasion whilst giving complete transparency and viewability of the product.

Product Code - VCI 702

Thickness 75 to 500 microns
Bag Sizes Width 2" to 200
Length - Any
Colour Blue / Yellow / Transparent
Printing Upto 8 colours

VCI 3D Carton Liners



Corrugations contain high level of humidity. VCI 3 D Carton Liners are used to protect steel components from effects of moisture. These are available as per the size of the carton in a Gusseted (703 G), 5 sided extended height (703 XH) or 6 sided bag with a flap (703 FL)

Product Code - VCI 703G , 703H and 703 FL

Thickness 75 to 300 microns
Tube Sizes 10" to 200" tube
Colour Blue / Yellow / Transparent
Printing Upto 8 colours

VCI 3D Pallet Liners



It is important to seal the packaging to attain an inert atmosphere with the Pallet box and restrict the influx of moist air. 3 D Pallet Liners are used to form an air-tight atmosphere and prevent corrosion due to saline sea humidity entering the pallets.

These are available as per the size of the carton in a Gusseted (704 G), 5 sided extended height (704 XH) or 6 sided bag with a flap (704 FL)

Product Code - VCI 704G, 704H & 704FL

Thickness 75 to 300 microns
Tube Sizes 10" to 200" tube
Colour Blue / Yellow / Transparent
Printing Upto 8 colours

Specs:

Size - 4" to 200"
Printing - 6 colour
Roll Size - Custom
Thickness - 30 microns+

Ideal to Pack:

Parts | Electronics | Steel Plates and Coils | Machines | Engines | Transmissions

VCI PLASTICS

using SMP VCI Technology

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VCI Bubble Wrap



VCI bubble wraps are used where impact protection such as dents, scratches are required on the parts during shipment and storage. These can be provided in the form of sheet or in custom sized bags.

Thickness : 75 / 90 / 120 gsm
Tube Sizes : 3" to 40" bags
Colour : Blue/Yellow/Transparent

Product Code - VCI 706

VCI Zip Lock Bags



VCI Zip Lock bags are used to pack components which need removal and resealing.

Thickness : 100 / 150 microns
Bag Sizes : 3" to 30" width bags
Colour : Blue / Yellow / Transparent

Product Code - VCI 707

These are also used where multiple products are packed in a bag and then need to be used one by one over a longer time period.

VCI Foam



VCI Foam is used to wrap parts which may be susceptible to scratches, dents along with corrosion.

Thickness : 1/3/5/7/10/20/50mm
Type : Sheet, bags and rolls
Lamination : PE Available
Colour : White / Blue

VCI Foam provides cushioning effect with impact resistance.

Product Code - VCI 708

VCI Printed Films



VCI Printed films have seen a growing demand in the auto industry especially for use in aftermarket spares. A great way to protect parts and brand your product.

Thickness : 75 to 300 microns
Tube Sizes : 4" to 40" tube
Colour : Custom
Printing : Upto 8 colours

Product Code - VCI 709

Holographic films can also be embedded in the pouch to protect from counterfeit products.

Specs:

Size - 4" to 200"
Printing - 6 colour
Roll Size - Custom
Thickness - 30 microns +

Ideal to Pack:

After Market Parts | Electronics | Steel Plates and Coils | Machines | Engines

COIL PACKAGING

and rust preventive oils



VCI Woven HDPE Papers



HDPE fabric reinforced paper or PE provides superior corrosion prevention with its 15-18gsm coating of VCI chemicals. PE lamination on the outside inhibits any moisture entering the packaging and HDPE fabric provides extreme strength to the total reinforced hence providing an extremely useful combination of corrosion prevention.

VCI Tuff Films



The VCI Tuff tubes is applicable to ferrous metal, alloys steel, cast iron, copper, brass, bronze, plated metal zinc and its alloys, chrome and its alloys, cadmium and its alloy, tin and other metal materials and their products. The film has high strength and provides extremely good corrosion protection in the hollow of tubes.

Adhesive Films



Protective film is based on PE Film and BOPP Film treated with special proprietary adhesives and several special additives. The adhesive is colorless and transparent with good tenderness and stickiness and enjoys wide application in surface protection on various plates, sheet, profiles, boards. etc. The sheet can be printed in upto 6 colours.

VCI Crepe Papers



VCI Crepe Papers are manufactured to provide extreme strength, abrasion resistance, cushioning between layers and corrosion protection to the components around which it is used. Creping helps elongation of Crepe Paper during automated wrapping and protects tearing of paper from sharp edges. Elongation can be controlled and set to 25-100% of actual length.

VCI Stretch Film



VCI stretch film contains Vapour Corrosion Inhibitor properties to provide anti-corrosion protection to stretch wrap packaging applications. Our VCI stretch films deliver cost effective corrosion protection to ferrous and non-ferrous metals, metal parts especially steel coils, wires, strips and tubes.

Specs:

Size - 4" to 200"
Printing - 6 colour
Roll Size - Custom
Thickness - 30 microns +

Ideal to Pack:

Coils | Wires | Rebars | CTL Sheets and Plates | Machinery | Rods | Colour Coated Steel | Galvanized Steel | Stainless Steel | CR | HR | Aluminum

VCI ALUMINUM FOIL

for most **critical applications**



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Albar Aluminum Foils

Aluminum barrier foils are a perfect combinations to reduce moisture penetration inside the packaging and provide shelf life of upto 15 years. It has extremely low water and oxygen transmission rates. It can be vacuum and heat sealed and the inner layer of the aluminum foil can have VCI protection to protection corrosion of metals.

VCI Metbar Films

Another alternate is with metal barrier protection that has a aluminum coated polyester with VCI LDPE combination can be used in applications where high level of protection is required where VCI can protect parts in highly demanding areas.

Aluminum Barrier and Metal Barrier Metbar Films have Water Vapor Transmission Rates of 0.1% compared to normal LDPE

It gives Protection against moisture, oxygen transmission, corrosion, physical damage, odor transfer, UV radiation, chemicals. and has Good Asthetics and High puncture resistance. Corrosion is kept at a bay by maintaining humidity level below 40RH.

It gives over all cost reduction by way of reduced desiccant/preservatives, packing case cost and rejections due to corrosion and spoilage of packed products.

Specs:

Size - 4" to 200"
Printing - 6 colour
Roll Size - Custom
Thickness - 100 microns +

Ideal to Pack:

Machines | Engines | Heavy Equipment | Parts | Control Panels | Food grade

VCI SHRINK FILMS

wrap it for **puncture proof packaging**



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Shrink Films

Shrink films are made from high quality resins to cover almost anything. There is a wide range of widths, lengths and mil thicknesses and colors. All our shrink wraps contains maximum UV inhibitors to last as long as 10-15 years in open.

Shrink films can be heat shrunk using a hot air electric gun, gas gun or flame gun which are also available with us.

Shrink covers of custom sizes made in rolls, bags or sewn for specific applications can be custom developed. They can also be printed for signifying usage or can be colour coded.

VCI Lamina Shrink Films

RustX VCI Lamina Films are manufactured using state of the art SMP Technology for speedy moisture passivation and provides long term corrosion protection to the packaged parts. VCI Lamina Films when sealed isolates the packed coils and sheets from influx of humidity and VCI pacifies the environment inside the packaging. VCI Lamina films are suitable for ferrous and non ferrous metals and inhibit the development of corrosion, tarnishing etc for upto 5 years in a complete system designed by RustX.

RUST-X VCI Lamina Shrink Film is a specially designed product for the packaging of heavy equipment, armament, pallets, vehicles, automotive parts, engines, wind mills, power plant equipment, chemical plant equipment etc.

RustX Films are cross linked which increases the strength between the molecular chain and provides very high tear and tensile strength and dart impact.

The film can be printed in upto 6 colours



Lamina Shrink Films have outer layer white and inner layer colour blue. The Inner Layer is a special VCI Coated film to provide long protection.

Specs:

Size - 4" to 600"
Custom Bags
Printing - 6 colour
Roll Size - Custom
Thickness - 100 microns +

Ideal to Pack:

Boats | Helicopters | Jet Engines | Machinery | Heavy Equipment |
Military Equipment | Naval Equipment | Large automotive parts | Castings

VCI RP OILS

more than 100 products to chose from



Export Grade with VCI

Export Grade Rust preventives provide corrosion prevention against the most corrosive sea environment during exports. The VCI oils work in vapour phase as well as contact phase and protect the component for a longer duration providing longer packaged and storage life to the components. These are available in variety of grades with varying film thicknesses for various end use applications that match customer requirements of degreasing &, dewatering properties, film thickness, colour, protection period, washability, smell etc.

Domestic Grade

Rust-X Rust Preventive oils for domestic are well suited for inland transportation and short to long term storage. The oils are contact inhibitors and protect the metal from oxidation.

These are soft film. Solvent based or solventless. Dewatering, degreasing odourless rust preventive oils available in variety of grades with varying film thicknesses for various end use applications that match customer requirements. VCI chemicals deactivate acidic humidity providing elongated protection periods.

Product Codes

Export Grade	Domestic Grade	Film Thickness	DW	DG	Application	
135 A - Ex	135 A	1micron	Y	Y	Dry to touch oil for castings, machined components, engine parts. Engine oil compatible oil and doesnot need washing before fitment. Less fuming during induction heating & welding.	DRY TYPE
135 C - Ex	135 C	3 micron	Y	Y	Thin film rust preventive for application on all kinds of parts. Provides slight lubrication. Ideal for castings, forgings, machined components, wires.	
135 E - Ex	135 E	5 micron	Y	Y	Slight lubricating film rust preventive. Most versatile grade for all applications. Works well for castings, forgings, machined components, sheet metal parts, con rods, axles, flanges, gear boxes, transmissions etc.	
135 HD5 - Ex	135 HD5	15 micron	Y	Y	For parts that have to be stored in open environment or for longer periods as well as for components where thick viscous film is acceptable on the parts. Used for process equipment, oil rig equipment, large castings.	
135 C - Ex (AFR)	135 C (AFR)	3 micron	Y	Y	Acid Fume resistant grade for tubes & CR sheets/bodies. Thin film, non-sticky, transparent. Excellent corrosion prevention in corrosive environment.	
135 E - Ex (AFR)	135 E (AFR)	5 micron	Y	Y	Acid Fume Resistant grade for steel Tubes, CR Sheets and components that have to be exposed to corrosive environments during storage or manufacturing. Thin film, non sticky, transparent.	
120 A - Ex	120 A	3 micron	N	N	Solvent Free rust preventive oil. Thin film. No smell. Ideal for small machined components, castings, forgings. High flashpoint.	NON-DRY TYPE
132 A - Ex	132 A - Ex	6-8 micron	N	N	Solvent Free rust preventive oil. Light film. No smell. Ideal for components that require some lubrication during use or fitment. Also usable for electrostatic spraying.	
145 A - Ex	145 A - Ex	10 micron	N	N	Solvent Free rust preventive oil. Light film. No smell. Ideal for components that require some lubrication during use or fitment. Also usable for electrostatic spraying.	



135 C- EX being used for gears



145 A being used for steel coils



135 E being used for brake drums



120 A Ex being used for crankshafts

Specs:

Size - 2" to 200"
Printing - 2 colour
Roll Size - Custom
Thickness - 30 microns +

Ideal to Pack:

Coils | Gears | Auto Parts | Shafts | Cylinder Liners | Pistons & Pins

VCI PAPERS

high loading of chemicals **for long life**

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VCI Papers

VCI papers are used to protect components that require high shelf life and protection against corrosion. These have a high VCI chemicals carrying capacity and are useful in protecting components for longer periods and also provide better abrasion resistance compared to thin film plastics. Goods wrapped in or protected by RUST-XVCI paper are not affected by corrosion.

Product Name	Protection For	Printing	Lamination	Period	Oiling
VCI Paper 602	Ferrous & Aluminum	Red	Unlaminated	6-12 mnths	VCI
VCI Paper 603	Ferrous & Aluminum	Red	Laminated	2 year	VCI
VCI Paper 604	Cu, Brass, Bronze, Tin, Solder & other multimetal systems	Blue	Unlaminated	6-12 mnths	VCI
VCI Paper 605	Cu, Brass, Bronze, Tin, Solder & other multimetal systems	Blue	Laminated	2 year	VCI
VCI Paper 606-Long Life	Steel products for a longer protection period	Green	Unlaminated	2 years	Preferred
VCI Paper 607-Long Life	Steel products for a longer protection period	Green	Laminated	5 years	Preferred

VCI Woven HDPE Papers



HDPE fabric reinforced paper provides superior corrosion prevention with its coating of VCI chemicals and superior corrosion prevention especially for storage in open areas and long sea shipments.

The PE lamination in layer 1 and layer 3 inhibits any moisture entering the packaging . Layer 4 (outer) is also available as lamination layer.

VCI Paper with HDPE reinforcement is used to package products which require very high abrasion resistance under high loads. The VCI woven HDPE reinforcement provides remarkable tensile, puncture and tear strength along with water proofing qualities.

VCI Crepe Papers



VCI Crepe Papers are manufactured to provide extreme strength, abrasion resistance, cushioning between layers and corrosion protection to the components around which it is used. Creping helps elongation of Crepe Paper during automated wrapping and protects tearing of paper from sharp edges. Elongation can be controlled and set to 25-100% of actual length.

Specs:

Size - 2" to 200"
Printing - 2 colour
Roll Size - Custom
Thickness - 100 gsm +

Ideal to Pack:

Coils | Gears | Auto Parts | Shafts | Cylinder Liners | Pistons & Pins

CLEANERS

low millipore **cleaning**



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Solvent Based Cleaners

These are dry to touch oils that leave no stains or residue on the components. The chemical and the oil forms a soft film settles in the cavity of metals roughness and protects the metal from finger rusting, settlement of moisture, coolants causing corrosion and acid fumes.

	Product Code	Film Thickness	Protection Period	Drying Time	Flash Point
LOW FLASH POINT	CL000	0 micron	½ hr.	5 mins.	40°C
	CI002	0.2 micron	5 Days	5 mins.	40°C
	CI005	0.5 micron	30 Days	5 mins.	40°C
HIGH FLASH POINT	CL000H	0 micron	½ hr.	30 mins +	90°C
	CLOO2HFP	0.2 micron	5 Days	30 mins +	90°C
	CL005HFP	0.5 micron	30 Days	30 mins +	90°C
QUICK DRY	CI000 QD	0 micron	½ hr.	30 sec.	40°C
	CI002 QD	0.2 micron	5 Days	30 sec.	40°C

Aqueous Cleaners

Aquaflush is specially designed for achievement of low Millipore values on components. It is used in inter-operational and final cleaning operations of multi-metal parts and components and is suitable for use in a wide range of industrial spray and intensive flood wash machines.

Aquaflush is particularly recommended where corrosion protection during short-term storage is required. Aquaflush effectively removes soluble oils, light duty neat cutting or forming oils, lubrication oils, soft film corrosion preventives and general dirt.

Product Code	Protection Period	PH	Concentration
AQ03	2 days	9	2-3%
AQSYN	2 days	14	2-5%



RP Additive RPA4500

Leak testing in water causes deposition of water on metal surface resulting in high moisture content around metal surface. Often heating is done to dry off the water which is a slow and costly method. Rust Preventive additives when added with water stops inter process corrosion and protection for a period of upto 7 days. RPA4500 also prevents fungal and bacterial growth for 3-6 months.

APPLICATIONS	CONCENTRATE
1. Leak Testing	1-2%
2. Cutting Oil Tanks	1-2%
3. Washing Machines With Aqueous Washing	1-2%
4. Cooling Towers	1%
5. Recirculation Water	1%

Features:

Low milipore
Low consumption
Rust Protection
Mild pH

Ideal to Pack:

Coils | Gears | Auto Parts | Shafts | Cylinder Liners | Pistons & Pins

VCI POWER STRETCH

auto wrapper VCI films **with UV**



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Power Stretch Films

VCI Stretch Film is a special tacky film with ultra high tensile strength, excellent elongation, superior dart, tear and puncture resistance combined with corrosion resistance for metallic component packaging.

The film is available in rolls ranging from 150 mm to 2500 mm width and can be used for automated or manual packaging.

The Stretch film also finds application in cocooning steel, aluminum or copper coils. Once cocooned, the product has excellent performance in shower test and does not allow water to penetrate.

The overlapping layers seal the film due to the adhesion forces between the film layers forming an air-tight packaging system where water and air are not allowed to permeate through the overlaps.



USP

VCI for upto 5 year protection
High tackiness for better adhesion
600% + stretch
Printing available
Ideal for automatic wrappers
Suitable for aluminum and steel

Application

Can be used to pack :
Coils
Rods
Components
Machines



**Cost savings
at least
30%***

**Stretchability
of
280% vs 600%
competitor vs
RustX film**

**No water
seepage
caused due
to low tack**

Specs:

Size - 2" to 200"
Printing - 2 colour
Roll Size - Custom
Thickness - 30 microns +

Ideal to Pack:

Coils | Gears | Auto Parts | Shafts | Cylinder Liners | Pistons & Pins

RUST REMOVER

neutrasafe ph Netral Rust Remover



WORLDWIDE DELIVERY IN 5 DAYS

RUST-X®
REST WITHOUT RUST

Neutrasafe

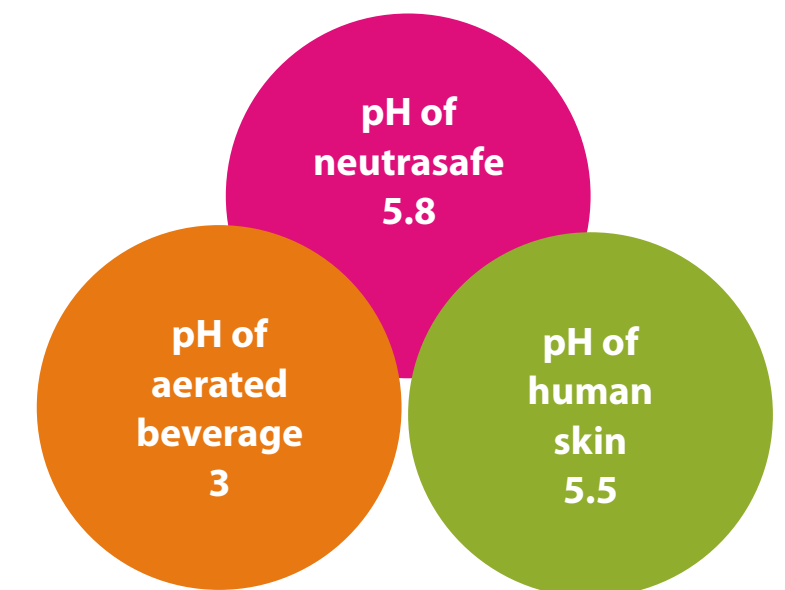
Neutrasafe rust remover is a Neutral pH & Safe rust remover which selectively attacks only the rust particles on the metal surface and removes them into the solution.

The process is very simple and involves only dipping the part completely into the Neutrasafe solution. The part can also be cleaned by taking a soft sponge or ScotchBrite pad and soaking in the Neutrasafe Rust Remover Solution and then wiping it over the rusty part.

The time for rust removal may vary from 10 seconds upto a few minutes depending upon the amount of rust on the part and process. In case the rust is superficial, there will not be any marks on the part after the removal of rust. However, in case there is severe pitting on the part developed, the surface may lose shine in the area that had developed severe corrosion.

On the pH scale the Neutrasafe is more alkaline than the orange juice and Coca Cola and the pH is similar to that of human skin.

- Rust Removal in 5 minutes
- Available in powder and liquid
- Transparent Solution with no odour
- No special precautions required
- Easy disposal



Specs:

Available in Powder, Paste and Liquid

Rust Removal in 5-10 minutes

Ideal to Pack:

Castings | Forgings | Sheet Metal | Sintered Metal | Galvanized

ACCESSORIES

advanced applications **advanced products**

RUST-X®
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pH Meter



Handy PPM and pH meters can be used even by the operators. No more reliance on lab chemists for obtaining data.

Heat Sealer



Seal your bags to inhibit influx of moisture in your packaging and prevent outflux of VCI from the packaging

Humidity Meter



Humidity meter is the best equipment of control to check moisture in boxes and wood. Sharp high tensile steel teeth provide longer life.

Flange Savex



Rustx VCI Metalbarrier film. Available in various sizes

Corrugated Boxes



Corrugated Boxes with special toughening of flute to withstand upto 3MT load. The flute is bidirectional to provide better strength

VCI HDPE Tape



HDPE tapes with high adhesive properties for best tackiness in humid environment.

Stretch Films



Special hand and machine stretch films available in both pre or post stretch. Available in various sizes & thicknesses.

Refractometer



Check the conc of your coolants or emulsions using high accuracy refractometer

German Pallets



German Pallets made from wood chips and wood waste. It can hold upto 3MT of weight.

VCI Tablets



1 gm VCI tablets are compressed VCI chemical for protection of parts that require special advanced corrosion inhibition and for hard to reach spots where direct packaging cannot be used

Air Pouch Machine



Air pad machine for applications of high risk to protect damage to components and parts

Air Pouch Machine Jumbo



Air pad machine for applications of high risk to protect damage to components and parts

Strap Stand



Easy to use strap stands to place strapping coils or tools on the stand

Dunnage Bags



Fill void space inside container by using large sized dunnage bags in between pallets and equipments

Hand Stretch Wrapper



Hand stretch wrapping device for ease of packing pallets, boxes or machines etc. effortlessly.

Specs:

Size - 2" to 200"
Printing - 2 colour
Roll Size - Custom
Thickness - 30 microns +

Ideal to Pack:

Metal | Electronics | Garments | Furniture | Polymers | Food Grade Materials

Emitters & Desiccants

emit it absorb it and protect it



Protecting 5000+ units globally

RUST-X
REST WITHOUT RUST

VCI Emitter 4200

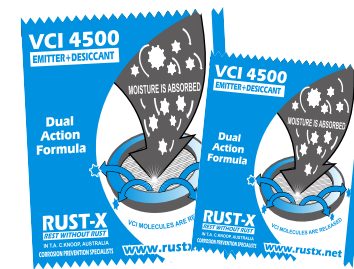


VCI 42000 Emitter are unique devices designed to provide corrosion protection for metal components and parts enclosed in Non-Ventilated carton boxes, cabinet or pallets and containers. These work by emission of VCI chemicals.

They are available as breathable pouches that do not leave any powder dust or secrete water on the parts in contact.

Dosage - 5gms per 10 cuft , **Available in** - 5/10/20/50 gms

VCI 4500 Emitter + Desiccant



VCI 4500 is a combination of VCI Emitter & desiccant to provide absorption of moisture and emission of VCI chemicals. It is a great dual action formula pouch with 50% content as VCI powder and other 50% as humidity absorbant desiccants. Its provides a great way to protect components, machinery or parts. It reduces the confusion for using 2 products i.e. desiccant and emitter combined to a single combo pouch.

Dosage : 50 grams for 25 cu ft , **Available in** 50/100/250 gms



VCI 19000 Dehumidifier



VCI 19000 Desiccant is a drying agent used to lower the moisture content of air inside a closed space. The moisture is entrapped in the sieves of the desiccant and cannot be transferred ack to environment even at high temperatures. It can be used for food and non food grade applications.

Dosage 50gms per 10cuft **Available in** - 5/10/20/50gm

VCI EMITTER 5 AND 11



VCI Emitters are used to protect electronic and metal components from the wrath of corrosion.

Emitters can be placed in the vicinity of the electronic and metal components which are in an enclosed environment. The VCI molecules evaporate from the breathable membrane and provide long term corrosion protection from humidity and corrosive gases such as H2S, Nh3 and So2 etc.

Dosage - Emitter 5 for 5 cu ft and Emitter 11 for 11 cu ft

Specs:

Size - 2" to 200"
Printing - 2 colour
Roll Size - Custom
Thickness - 30 microns +

Ideal to Pack:

Casting | Forging | Sheet Metal | Sintered metal | Machined parts | Machinery

Collapsible Boxes

more than 100 products to chose from



CONSUMES ONLY 15% OF SPACE AS COMPARED TO TRADITIONAL PALLETS
5 TIMES MORE STRENGTH THAN TRADITIONAL PALLETS

RUST-X®
REST WITHOUT RUST

Pallets With Collars

Collar-X Box

Collar Hinge Pallet boxes offer a very convenient solution for economic, reusable and globally recyclable system of packaging for automotive and electronic components. The pallet can be assembled and disassembled in layer and provides easy placement of parts which have to be placed in different layers as well as easy removability during use or on assembly lines.

These are available in different standard and custom sizes to suit customer requirements. Dividers and partitions are also available to allow different layers and separations between components to prevent collision of parts during sea or land transportation.

These are made from high quality wood and can be reused from 15-20 times. 15-20 containers shipped of boxes with parts can be brought back in 1 container for reuse.



Nail-less Pallets

Stronga Box

These are easy to assemble boxes supplied in flat form and are delivered as pallet base and sides. The boxes are made of special high strength Plywood with sides made up of steel hinges that provide high strength for stacking of pallets. The complete pallet can be assembled within a few minutes by fixing the steel tongues into the hinges.

As supplied the pallets consume only 20% of the volume compared to assembled boxes.

These are available in standard Euro Sizes and can also be supplied in custom sizes to suit client requirements.



Features:

- Size - Custom
- Globally Recyclable
- Globally Reusable
- Light Weight
- Only 15% space required for storage

Ideal to Pack:

Metal | Electronics | Garments | Furniture | Polymers | Food Grade Materials

Rust Preventives & Cleaners

more than 100 products to chose from



PROTECTING YOUR WORLD WITH THE BEST SOLUTIONS
DRY TO TOUCH OILS AVAILABLE

Rust Preventive Oils

Worlds Best Rust Preventives - upto 5 years Corrosion Prevention

Rust-X Rust Preventive Oils are engineered to provide tbest protection for domestic and export of metals and non metals

Domestic Series - Solvent Based	135 C 2-3 microns	137C 2-3 microns	135E 4-5 microns	Dry Type, Multiple application
Export Series - Solvent Based	135A-Ex <1 microns	137C-Ex 2-3 microns	135E-Ex 4-5 microns	Dry type VCI Oils, Multiple application
Export Series - Heavy Duty	Rust-X 30<5 Microns Rust-X 32 < 10 Microns			Excellent for acidic environments
Heavy Duty Series - Waxy Film	HD5=15 Microns, HD7=25 Microns			Excellent for acidic environments
Tectonic - Hard Film	Tectonic 506 - 25 microns - Dark Brown Hard Film			Hard film, scratchless, weather proof
Solvent Less Rust Preventive	120A =1-2 Microns	132A = 4-5 Microns	145A = 8-10 Microns	Auto Spray & Electro Static applications
Aluminum Rust Preventives	CI002 <1 microns			Rust Prevention for Aluminum
Tube and Wire Mills	137 C 2-3 microns			Short term protection for tubes & wires

Water Based RP Oils

Economical water based series for emulsions in water

Water based RP oils have to be mixed in DM water and then dried in oven at 80 C for 3-5 miutes

WRP050	Conc 6-10% in water	3 micron polymer film	Rust prevention for upto 6 months
WRP 911 - Ready to use	Medium Film Forming	4-5 microns	Can be used for final product
WRP 912 - Concentrate	Concentrate to be used between 10-20%		

Rust Removers

Rust Converters and Removers

Rusted components can be retained back by the process of rust removers, then neutralization and finally applying rust preventive oils

NEUTRASAFE	Neutral pH rust remover	Cleaning time 20-40 minutes	For Ferrous and Non Ferrous
RR 100	Transparent acidic solution	Cleaning time 1-5 minutes	For Ferrous and Non Ferrous
RR 500	Transparent solution Slight acidic	Curing time - 3-7 minutes dipping time or spray application	For Ferrous parts only

Rust Preventive Additive

Water based Rust Preventive Additive

Rust Preventive Additive can be used in variety of applications for corrosion prevention where water is used as a media. It can be used in leak testing operations, coolant tanks, water washing etc.

	RPA 4500	Max conc 10%, pH = 9	Multi application RP additive
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Washing Medias

Component washing fluids

Washing Medias are used to clean parts after operation and obtain low millipore values

Solvent based cleaner	CL000 = No Protection, CL005 = upto 1 week protection		Manual, Ultrasonic & Pressure washing
Water Based Cleaner	Aquaflush AQ03	Premium product, low millipore, 1-3%	Used in high pressure machines
	Aquaflush Vibrox	Excellent cleaning & Rust Protection	Used in Vibro machines

Vanishing Oil

Cleaning agent and Light Rust Preventive

	Vanishing Oil	V ₄₀ = 2 cST	Low odor Oil for cleaning and is a replacement to conventional cleaning media like diesel, kerosene etc
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All Viscosities are calculated at 40 degrees Celcius

Features:

Mineral and Water based
Solvent less available
Odorless
Rust prevention upto 15 yrs
Outdoor storage available

Ideal for usage

Casting | Forging | Sheet Metal | Sintered metal | Machined parts | Machinery



Industrial Lubricants & Greases
more than 100 products to chose from

Greases			
A large range of greases help our customer chose the right grease suited for the right application			
Multi Purpose Grease	MP3	NLGI 3	Light yellow colour, drop point 180 C
Extreme Pressure Grease	EP2	NLGI 2	Brown colour, EP additive
Railway Road Grease	RR3	NLGI 3	Green colour, water resistant
Extreme Pressure Grease	EP000	NLGI 00/000	Automated lubrication systems
Molybdenum Grease	Molytex	NLGI 2	-20 to 140 C
Silicone Grease	Silicone Grease	NLGI 00/000	Long age and life silicone grease
High Temperature	High Temperature 270	—	High Temperature 270+ Drop Point
Other Industrial Lubes			
Carefully selected base stocks for use in central lubrication systems of Paper machines			
Turbine Oil	Turbino-X	32, 46, 68	Turbocompressors, turbines and gearboxes with FZG > 10
Refrigeration Compressor	Compre-X Friz	12, 22, 32, 46, 68, 100	For use in Refrigeration compressors
Circulating Oils	Circul-X	90, 140, 220, 320, 460	General circulating application
Slideway Oil	Slide-X EP	32, 68, 320	Horizontal and vertical slideways
General Purpose Lubrication Oil	Genre-X	140, 220, 320	For most basic lubrication needs
Thermic Oil	Therm-X	22, 32, 46, 68	Boilers, Heat Exchangers etc.
Lubrication Oils			
coolants Gear, Compressor, Circulation and Slideway Oils			
High-performance multipurpose oils for most demanding forming operations.			
Gear Oils	Gear-X	90,140, 220, 320, 460	EP Gear box oils
Gear Oils Synethic	Gear-X Synthetic	90, 220, 460	Synthetic gear oils with high VI
Compressor Oils	Compre-X	90, 140, 220	For use in compressors
Circulating Oils	Circul-X	90, 140, 220, 320, 460	General circulating application
Slideway Oil	Slide-X EP	32, 68, 320	Horizontal and vertical slideways
General Purpose Lubrication Oil	Genre-X	140, 220	For most basic lubrication needs
Hydraulic Oils			
A large range of hydraulic oils with a variety of options to chose from. Designed in R&D with our customers for custom applications			
Antiwear	HYDR-X AW	12, 22, 32, 46, 68, 100	Anti wear , age resitant
HLP	HYDR-X HLP	12, 22, 32, 46, 68 , 100	Following standard DIN 51 524-2
High Viscosity Index	HYDR-X VI	12, 22, 32, 46, 68, 100	Heat and Oxidation resistant VCI>150
Zinc Free	HYDR-X ZNF	12, 22, 32, 46, 68, 100	Following standard DIN 51 524-3
Synthetic	HYDR-X SYN	32, 46, 68	Polyglycol base fully synthetic
Fire Resistant (Water based)	HYDR-X FR	32, 46, 68	Fire resistant hydraulic oil

All Viscosities are calculated at 40 degrees Celcius

Features:
Performance as per ASTM
All virgin products mfg
High Viscosity Index grades
Superior Anti Oxidation
Best Rust Prevention

Ideal for usage
Casting | Forging | Sheet Metal | Sintered metal | Machined parts | Machinery



Water & Oil Based Cutting Fluids

more than 100 products to chose from

- Coolant Efficiency
- Excellent Lubrication
- Corrosion Protection
- Biocides
- Defoamer
- Tool Life Extension

WATER BASED CUTTING FLUIDS

Mineral Oil Coolants

WS Series - Mineral Oil Based Water Soluable

RustX niche and most desired range of products WS series give magical results to your metals or non-metals. High tank lif and extremely friends for operators. Works upto 700ppm of hard water for emulsion stability but most suitable against with DM W

Tank life upto 6 -12 months			
WS 50	V ₄₀ = 55 mm ² /s	Ratio 1:20 to 1:40	Medium and Heavy duty Machining and Grinding

Semi Synthetic Fluids SHARP Series - Semi Synthetic Cutting Fluids			
Semi synthetic fluids with heat reducing formula and high rust prevention and tank life.			
	SHARP 3,000	White emulsion	Hi Speed machining and grinding
		Tank life upto 2 years	Hard metal machining
		Tool life increment upto 50%	Suitable for VMC's, HMC's, CNC's
		Consumption reduction upto 50%	

Synthetic Fluids SYN Series - Synthetic cutting fluids			
Synthetic cutting fluids are most ideally suited for grinding and machining operations where high heat and friction is genera SYN series provide good lubrication but more than provide best cooling properties, rust prevention and tank life.			
	SHARP 11,000	Transparent . Green or Blue emulsion	High and low speed grinding
		Tank life upto 2 years	High and low speed grinding

OIL BASED CUTTING FLUIDS			
Metal Working Fluids		GRINDX SERIES - Oil based cutting fluids	
High-performance neat oils for grinding and honing of steel and non-ferrous metals.			
Grinding	GRIND-X 5, 12	V ₄₀ = 5, 12 mm ² /s ¹⁾	Hard metal grinding
	GRIND-X 22	V ₄₀ = 22 mm ² /s	Tool grinding
	GRIND-X 32	V ₄₀ = 32 mm ² /s	Tool grinding
Honing	HON-X 22	V ₄₀ = 22 mm ² /s	Cylinder honing

Metal Working Fluids		NEATCUT Series - Oil based cutting fluids	
High-performance cutting oils for turning and drilling operations. Suitable for ferrous and non ferrous metals.Neatcut series products are loaded with high contents of extreme pressure additive for heat reduction and efficiency increment.			
Turning, drilling	NEATCUT 5	V ₄₀ = 10 mm ² /s	Steel, non-ferrous metals
Turning, drilling, grinding	NEATCUT 12	V ₄₀ = 12 mm ² /s	Steel, precious steel
Vertical broaching	BROACH-X 16/ 22	V ₄₀ = 22 mm ² /s	internal-external profiles
	BROACH-X BT 18/ BT22	V ₄₀ = 18 mm ² /s	internal-external profiles
Helical broaching (HOBGING)	HOB-X 12	V ₄₀ = 12 mm ² /s	Sprocket hobbing
	HOB-X 22	V ₄₀ = 22 mm ² /s	Gear hobbing
	HOB-X 32	V ₄₀ = 32 mm ² /s	Gear hobbing

Forming oils		Form-EZ Oils - Extreme Pressure Forming Lubricants	
High Performance extreme pressure additive fortified forming oils for most demanding applications			
FORM-EZ 12, 32, 46, 68, 100		V ₄₀ = 12 mm ² /s	

Drawing Oils - Neat Oil		EVAPORATIVE Oils for a dry & clean component
Neat drawing lubricants for bright bars, tubes and wire drawing operations on any severity		
	Draw EZ 32, 54, 100, 220, 320 , 680, 100	High Performance extreme pressure additive fortified chlorinated drawing oils for demanding applications

TOP SELLING

TOP SELLING

TOP SELLING



Zorb-IT Clay desiccants

100% natural, DMF free & reeceyclable

The Zorb-IT Desiccant

Zorb-it desiccants are specially formulated dehumidifiers to control the relative humidity in the enclosed packaging system where damp environments can cause problems. The issues caused by excessive moisture can be corrosion in metallic and automotive components during storage and exports, corrosion issues in machinery and process equipment during exports, fungal developments in textiles and garments, circuitry issues in electronic goods, mold development in leather goods, dampness in pharmaceutical products and tarnishing of brass, copper and silver. Due to the changes in temperature and volume of air, the moisture is sucked into the container by the process of container breathing. This moisture then condenses or gets absorbed resulting in a detrimental effect on the articles packed. Zorb-it helps in adsorption and retention of this moisture within the Zorb-IT Desiccant pouch.

ZORB-IT Container Suck



Zorb-IT Container-Suck is based on Special Chemistry which comprises of Type A chemicals that absorb humidity from within the container and then entrap them within Type B molecules of Super Absorbant Chemicals which have the capability to absorb upto 100 times their own weight.

With Super Absorbents

PROPERTY	DESCRIPTION
Appearance	White Colour Pouch with Blue & Red Printing
Packaging	Tyvek/Tyzorb paper for controlled moisture permeation and 1 way transmission only
Form	Free flowing powder / granules
Size	7" x 10"
Hanger	Available
Weight	50,100, 200 gms
Service Temperature	20°C to 90°C
Water Absorption Capacity	upto 4 times its own weight
Volume Protected	5-8 Cubic Feet
Standard Specifications	DIN Ss473 and MIL 3464 E

ZORB-IT Pole



In larger volumetric products the pouches need to be hanged within the containers or machines or process equipment to reduce the humidity levels.

Zorb-IT Pole contains a set of 4 pouches onto a string weighing 1 kg. The string has a hanger on top to allow it to be hanged inside the container or on machines as well as equipment.

It is effective in protecting the equipment from large humidity influx.

The Zorb-IT Pole also contains VCI chemicals to take care of corrosive action of the humidity if it settles onto metal equipment.

String of 4 Pouches with Hanger

PROPERTY	DESCRIPTION
Appearance	White Colour Pouch with Blue & Red Printing
Packaging	Tyvek/Tyzorb paper for controlled moisture permeation and 1 way transmission only
Form	Free flowing powder / granules
Weight	1 kg Pole
Hanger	Available
Absorption Capacity	upto 2 times its weight
Service Temperature	-20°C to 90°C
Requirement per Container	1m ³ pallet = 500 gms - 1kg 20 feet container = 4-6 kg 40 feet container = 8-12 kg
Standard Specifications	DIN Ss473 and MIL 3464 E

Features:

High absorption capacity
works in wide temp range
No reverse release of H₂O
Safe for human
Safe for environment

Ideal for usage

Casting | Forging | Sheet Metal | Sintered metal | Machined parts | Machinery

TUFFPAULIN

100% natural, DMF free & reeceyclable



TUFFPAULIN

Tough-Tarpualin

with XLF Technology

TUFFPAULIN *Tough-Tarpualin with XLF Technology*

RUST-X®
REST WITHOUT RUST

The name Tuffpaulin suggests highly TUFF-TARPAULIN.

Tuffpaulin is made using German Machinery having reinforcing multilayered structure in order to provide strength in multiple directions. The ribbed reinforcements reduce the tearing in case of an induced puncture.

The criss cross layers in the film make bonding perfect and practically non-tearable. This is a better alternate to HDPE fabrics, Polyethylene sheets and other coverings normally used in similar applications.

Tuffpaulin is designed with Ultraviolet protection for usage as covers due to its flexibility, water proof properties, toughness, high puncture resistance, excellent tensile properties and superb tear resistance. The product is available in various thicknesses and colours.

GSM Available: 90, 120, 150, 180, 200, 250, 300

Width: 1 feet to 12 feet

Colours Available: Natural, White, Blue, Green, Yellow, Red



CROSS LINKED STRUCTURE



WIDE RANGE OF COLOURS



TRUCK BODY COVERS



MACHINE COVERS

Features:

- Cross linked structure
- Available with or without VCI
- Available in variety of colours
- Ribbed structure for Hi-Strength
- Width upto 1000 inches
- Custom sized bags available

Ideal for usage

Machine covers | Mulching | Agriculture | Green house | Truck body covers |



ISO 9001:2008

RUST-X[®]

REST WITHOUT RUST

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USA, Italy, France, Australia, India

Warehouses :
Nordic, Russia, Singapore, UAE

VCI[®]

IS A REGISTERED TRADEMARK
OF HI-TECH INTERNATIONAL

RUST-X IS A HI-TECH GROUP BRAND