

# TOTAL PACKAGING SOLUTIONS



[www.skprotective.com](http://www.skprotective.com)

## SKProtectiveProducts

TOTAL PACKAGING SOLUTIONS



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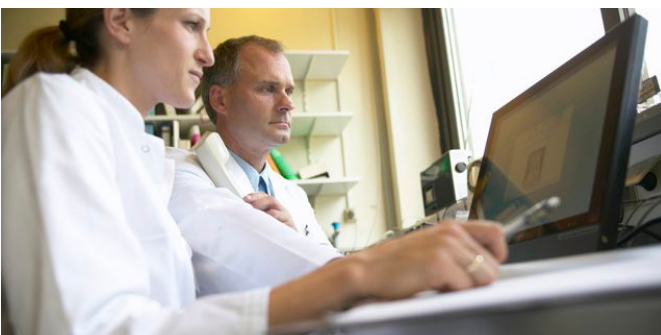
## SK Protective Products



“SK Protective Products” is an ISO 9001 - 2000 firm with renowned name in the field of specialty packaging products and having over 20 years of experience. We offer products and services that match our customers’ diverse requirements. SK Protective Products has developed new innovative packaging products which are appreciated by customers who first care for quality of their product.



We have a team of experts, scientists and technocrats who are busy in new developments as well as research in specific product packing . To give cost effective quality product is the first focus of our team while they do their researches.



We have a well equipped laboratory.

The major testing equipments include :-

- Physical Properties testing.
- Special Humidity chamber with auto controls
- Thermostatic Controlled serological water bath
- Moisture Vapor I Water transmission rate testing apparatus.



## SK Protective Products

### THE VCI ADVANTAGE

Leave your Corrosion problems to SK Protective Products Eco-friendly **Vapour Corrosion Inhibitors** (VCI) which provide Corrosion Protection Systems and Solutions, Just focus on manufacturing your quality Parts I Units to your maximum production capacity level.

We SK Protective Products have developed packaging systems which will help your product and shall keep them corrosion free, from your Unit till it reaches the end user of your products, anywhere around the Globe. Our aim is not only to safeguard your parts till up to the destination but they will also remain safe while they are at your end users storage system for longer period.

We all know that metals have always feared us by corrosion during process, operation, storage or transit. The old conventional material used for packaging are oiling, greasing, polythene sheets, bitumen paper or Jute cloth, silica gel etc. these are sometime costlier. hazardous and even they don't work when they actually need to perform. They are not sufficient for packaging engineering items where something extra, special grade as against of these conventional material is required. Earlier engineering goods therefore often use to have experience of rusting problems, despite using these methods and materials for packaging. In most of the cases these are the cause rather than the solution with regards to corrosion.

### Don't be Misguided

Metal loves corrosion.  
The first interest of metal is to get  
itself coated with Corrosion.

Nothing till date and in future  
will be able to stop this process.

However 'SK protective Products',  
VCIs amongst the available VCIs shall  
protect the Metal from Corrosion like  
parents/guardians protect their child and  
fight corrosion the most.



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## SKProtectiveProducts



We are serving customers from various manufacturing categories such as

Industries	Items can be Protected using VCI Material
Automobile	Spare Parts, Components, SKD
Metal Coils	Steel, Aluminum, Copper Brass, Bronze, Silver
Machinery Export	Parts, Components etc for Shipping and Storage
Tools	Precision Tools and Instruments
Wires	Steel, Copper Plated, Brass, Bronze, Aluminum
Aviation	Storage & Transport of Components, metals
Medical	Medica/Instruments and Surgical Blades
Metal Components	Machined Castings,. Crank Shafts, Bearings, Dies
Hardware	Nuts, Bolts, Screws, Tools
Storage	Military Hardware, Fire Arms



## SK Protective Products

'SK Protective Products' is a leading manufacturer of anti-corrosive products because of its hi-tech chemicals, we offer customized solutions and a range of VCI Products which are ecofriendly and cost-effective. SK Protective Products hi-tech chemicals are loaded on special paper, Poly film, Powder so that when they wrap over the parts ( VCI Paper / VCI Film) or kept near to the part (VCI Powder) they will start giving protection.

We SK Protective Products have range of VCI Papers are coated with VCI technology, the choice of which is wholly dependent on the metal to be protected and the end-use application. When the metal part is enclosed, wrapped or interleaved with these VCI coated papers, vapours are emitted which saturate the surrounding air space, The vapours are adsorbed onto the metal surface forming a mono-molecular protective layer. This protective layer remains on the metal surface until the package is opened when it evaporates leaving a clean metal surface.



- The use of SK Protective Products provides protection and enables effective long-term protection of metals.
- SK Protective Products VCI papers are convenient, clean & user friendly and do not interfere with the functionality of products being protected.
- VCI layer is self-replenishing allowing the package to be opened for inspection & part removal and then re-closed again.
- The VCI paper system provides excellent vapour phase and contact inhibitor action for a wide range of metal types.
- Laminated VCI papers have the added advantages of increased strength & flexibility while also offering increased protection from moisture ingress and/or grease.
- SK Protective Products VCIs avoid conventional processes such as de grease, clean, oil, rust removal, repairs etc.



# TOTAL PACKAGING SOLUTIONS

## SK Protective Products

# MISSION

SK Protective Products mission is to suggest various best solutions of packaging to each and every scale of industry and amongst these solutions give them the best suitable for their product, with minimum cost, backed with excellent service



# VISION

Our vision is to be the leader in the development and provision of solutions and support to Indian industry as well as to enter into the global market.



## SKProtectiveProducts

### VCI 80 PAPER



SK Protective Products' **VCI 80 paper** carries a high load of chemical inhibitors. Through its direct contact it protects metal & vapour action. The chemical coated on the paper vapourise and then settles on the metal surface and also protects the areas like drilled holes, crevices etc.

#### **Material**

The bottom paper is 70 gsm kraft paper surface the coating of corrosion preventive chemical of 10-12 gsm is loaded.

#### **Physical & chemical properties**

Total grammage (g/m <sup>2</sup> ) ave.	:	80 (as per is 1 060-part 1-1966 )
P. H. Value	:	8.35
Tensile strength (kg/15mm) side-i	:	1.69
	side-ii	: 2.81
Tear resistance (gf) ave. side-i	:	83
	side-ii	: 47
Corrosion resistance test	:	3 cycles of corrosion performance test. (as per IS 6263)

#### **Special features**

VCI 80 paper is non toxic, nitrite free. It is recyclable & environmentally friendly.

#### **Application**

VCI 80 paper can be supplied in form of cut sheets I roll form I as per customers requirement.

For cold rolled coils I wires industries 1 gear & pumps 1 machine mfg./ automobile indus. I machine tools I cast & iron I forging I engineering 1 crank shafts etc.



## SK Protective Products

### VCI 165 HDW PAPER

SK Protective Products' **VCI 165 HDW** paper protects iron & Steel against Corrosion even in the most unfavorable climatic conditions. The paper carries a high load of chemical inhibitors. Through its direct contact it protects metal & Vapour action. The chemical coated on the paper vapourise and then settles on the metal surface and also protects the areas like drilled holes, crevices etc, this is appropriate material reinforced with HOPE woven fabric and for products which require a moisture barrier I grease resistance. The material should immediately kept in pack condition after its usage and should not expose to open air/sun specially in rainy season.

#### **Material**

The bottom paper is 80 gsm kraft paper with lamination of LDPE on it and in between these two a woven fabric of 10 X 10 Mesh. On paper surface the coating of Corrosion Preventive chemical of 12- 14 gsm is loaded.

#### **Physical & chemical properties**

Total Grammage (g/m <sup>2</sup> ) ave.	:	165 (as per is 1 060-part 1-1966 )
P. H. Value	:	8.50
Tensile strength (kg/15mm) side-i	:	20.35
side-ii	:	12.89
Tear resistance (gf) ave. side-i	:	1301
side-ii	:	1088
Corrosion resistance test	:	3 cycles of corrosion performance test. (as per IS 6263)

#### **Special features**

VCI 165 HDW paper is non toxic, Nitrite free. It is recyclable & environmentally friendly.

#### **Application**

VCI 165 HDW paper can be. supplied in form of cut sheets / Three dimensional bags / Two dimensional pouches / Roll form / As per customers requirement.

For cold rolled coils / Wires Industries / Gear & Pumps / Machine Mfg. / Automobile indus. / Machine Tools / Cast & Iron / Forging / Engineering / Crank Shafts etc.





## SKProtectiveProducts

### VCI STEEL WRAP - 120

**VCI -120** Fabric is designed by reinforcing high density polyethylene scrim coated one side with uniquely engineered low density polyethylene blend and other side coated with low density polyethylene blend impregnated with specially engineered rust preventive VCI chemicals designed to prevent the corrosion of metals.

This is specially designed for Steel Coil wrap where cost effectiveness and high performance of VCI, the important two factors plays a very important role.

#### ***Specifications***

Nominal weave	: 8 X 8
Construction	: 20 LDPE + 60 WF + 40 LDPE
Weight	: 120 GSM
VCI Active side	: Yellow colour

#### ***Product Performance***

Tensile strength	: MD - 40kg/5cm (As per IS 1060 - part I - 1966) CD - 20kg/5cm (As per IS 1060 - part I - 1966)
Tear strength	: MD - 40% (As per IS 1060 - part I - 1966) CD - 15% (As per IS 1060 - part I - 1966)
Burst factor	: 12 kg / cm <sup>2</sup> (IS - 1060 Part I)
Corrosion Performance	: Passes contact corrosivity test (As per IS 6263 - 1972)



## SK Protective Products

### VCI PLASTIC/ POLY FILM

SK Protective Products' **VCI film** is universal grade that contains a combination of impregnated VCI chemicals designed for Multi metal i.e. Ferrous and Non ferrous metals. Protection against corrosion. sk protective products PE film protecting also difficult to reach areas like drilled holes etc.

#### **Material**

It is a plastic film impregnated with 12-14 gsm load of VCI chemicals.

#### **Special features**

- Sk protective products VCI film is Non Toxic, NITRITES free. it is human and environment friendly.
- It allows users too easily identify & inspect parts without opening the package.
- This VCI film is compatible with broad range of commonly used parts, greases, oil seals, rubber parts etc.
- It's not necessary to air-tight the package though it's required to be sealed properly.
- The film is heat sealable and most suitable for packaging electric, electronic or spare parts also.
- It can be supplied in TUBING from to pack components with ease and saves manual time in packing.
- It is specially designed to give MULTIMETAL protection.

#### **Specifications**

Thickness of film : 400 gauge

Width of Roll : Customized

Length of Roll : 100 mtrs.

#### **Applications**

For packing of castings / forgings / Machined parts.

For packing of Automotive parts like Gears, Crankshafts, pistons, Cylinder block, engine Assembly, Transmission assemble etc.

Parts can be conveniently packed in plastic VCI Film TUBING

(Pumps, Impellers, Motors etc)

3D and 2D bags can be supplied to tailor made size to pack the parts in wooden/ corrugated boxes along with VCI Anticorrosion Powder Pouches if necessary.





## SKProtectiveProducts

### ALUMINUM BARRIER FOIL

SK Protective Products' *Aluminum Barrier foil* gives excellent protection against moisture & corrosion especially for Seaworthy Export transit packaging. As the name states these materials act as "Barriers" to atmospheric elements that can cause corrosion and other damage. Aluminum Barrier Foil is flexible, heat sealable and tough and can be converted into flat or box shaped bags. The range of converted products is very large.

This Aluminum foil is approved by SGS India for its performance and quality which is very important for vacuum / seaworthy export packaging system.

#### **Special features**

- Product safe during shipment and storage
- Give product value
- To extend product life
- Safe to use and apply
- Multi-functional protection

#### **Applications**

- X-Ray Machines
- Transformers
- Machinery Packaging
- Aerospace
- Engines & Transmission Assemblies
- Pumps, Motors and Valves



## SK Protective Products

### VCI POWDER

SK Protective Products **VCI Powder** is an efficient and dry method of protecting ferrous & non-ferrous metals and electrical/electronic contact points from corrosion/oxidation when packed in enclosed containers and boxes, cabinets, polythene bags and cartons. VCI Powder is especially suitable for protection of spare parts/components packed in poly bags due to ease of insertion either manually or with a dispenser. It provides a monomolecular protective layer on metal surfaces guarding against oxidation and corrosion.

SK Protective Products' **VCI Powder** offers a very convenient and effective method of protecting metals from corrosion within a package. They can be easily dispensed into the package either manually or with a dispenser. The VCI Powder contains Hi-tech Volatile Corrosion Inhibiting chemicals, which have a property of evaporating into the surrounding enclosure. The released vapour deposits on the metal surface and forms a protective monomolecular layer which provides multi-metal protection and protects from corrosion. It thus enables effective and long term protection of ferrous and nonferrous metals against corrosion under adverse conditions including contaminants in air such as hydrogen sulphide, sulphur dioxide, ammonia or acid rain.

#### **Special Features**

- Offers protection to a wide range of ferrous & non-ferrous metals Under normal conditions offers protection up to 24 months Molecular VCI layer does not affect electrical/optical/mechanical surface properties
- Gives protection when equipment is in storage, transit and when in operation
- Effective in polluted and humid atmosphere
- Protects hard to reach areas such as drilled holes, crevices etc
- Easy to insert in a package and safe to handle
- Not harmful to humans and is environment friendly
- Available in customized gram mages and sizes
- Does not require activation I removal prior to usage

#### **Benefits**

- Cost reduction by reduced consumption of Labour, Materials & Time
- Value added product I service
- Peace of mind during shipping and storage
- Less periodic maintenance
- Extends product life





## SK Protective Products

### VCI DESICCANTS / SILICA GEL BAGS



**Silica Gel with VCI Desiccants**, which attracts and holds water by absorption and capillary condensation, allowing Silica gel/ VCI desiccants to adsorb about 25% plus of its weight in water.

#### ***Special Features***

Silica Gel with VCI Desiccants performs best at room temperatures (70° to 90° F) and high humidity (60% to 90% Rh) and will drop the relative humidity in a container down to around 40 Rh

High crush strength and high porosity

Remains dry and free flowing even when saturated

Chemically inert and Non-Corrosive

#### ***Application***

It's an additional secondary protection for machine I components packed in a VCI Paper bag or in Aluminum Foil bag under extreme humid conditions.

For protecting components packed in ordinary poly bags or in boxes I cartons under low humidity and where climatic conditions are not so severe or where protection required is not critical.



## Our Range of Products

**Plastic Stretch Flim**



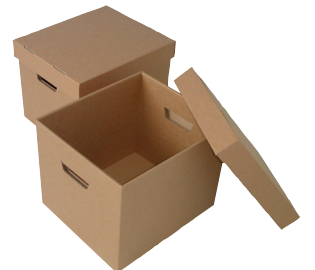
**HDPE Special Tape**



**VCI Master Batch**



**Corrugated & Wooden Boxes**



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