

RUST-X USA

RUST-X USA

Anti-Corrosion VCI SHRINK Films

Conforming to EN 13206/en13207 for
environmental/weather resistance

& Corrosion Protection as per TI 8135-002



About us



- Headquartered in California, USA
- One of the prominent Anti Corrosion Products Manufacturer Globally
- Manufacturing & product availability in over 50 countries & all continents
- Worldwide visits within 24-48 hours notice
- Over 100 Corrosion Engineers world-wide
- Supplier to Over 10,000 customers in Automotive, Aerospace and Oil & Gas

RUST-X USA Product Ranges

RUST-X
REST WITHOUT RUST



RUST-X USA

Zorb-It Desiccants

ZORB-IT

PROFESSIONAL MOISTURE CONTROL



<https://www.youtube.com/watch?v=jqQUZZt2ym8>

Facts

- ▶ 1000 + Employees in India
- ▶ Fully vertically integrated VCI manufacturer
- ▶ In house capability -
 - ▶ Reactors for making VCI Chemicals
 - ▶ Masterbatch manufacturing
 - ▶ Blown Film Extrusion Facilities world wide
 - ▶ Paper Coating Lines
 - ▶ Wide range of RP Oils and Additives



Global Manufacturing Locations Of RUST-X Products

USA Locations

Los Angeles CA, Cincinnati OH & Warren MI

India Locations

Delhi X 2 Plants

Mumbai X 2 Khopoli & Patalganga

Ludhiana X 3 Plants

Chennai X 1 Plant

CANADA

Alberta

Mexico

Tecate & Querretaro & Monterray

Germany - Dusseldorf

France - Lyon

Italy – Milan (Modena)

China - Suzhou & Yantai

South Africa - Johannesburg

**Turkey, Hungary, Poland, Australia, Ukraine,
Brazil, Argentina, Chile, UAE, Saudi Arabia,
Oman, Bahrain, Indonesia, Malaysia,
Singapore and over 50+ Countries**

Clientele

FLUOR®

BR PETROBRAS



Petrofac 



VCI = VAPOR CORROSION INHIBITORS



VCI Films



VCI Paper



VCI RP Oil



VCI Emitters
& Desiccants



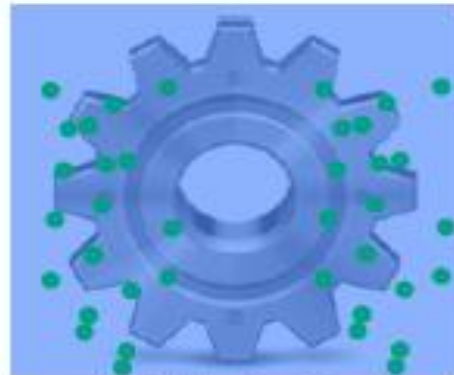
Aluminum
+ VCI Film

SMP VCI Technology

Speedy Moisture Passivation



VCI Bag is opened



**VCI Emissions
Start in seconds**



**20% is evaporated in 6
hours and 80% over**



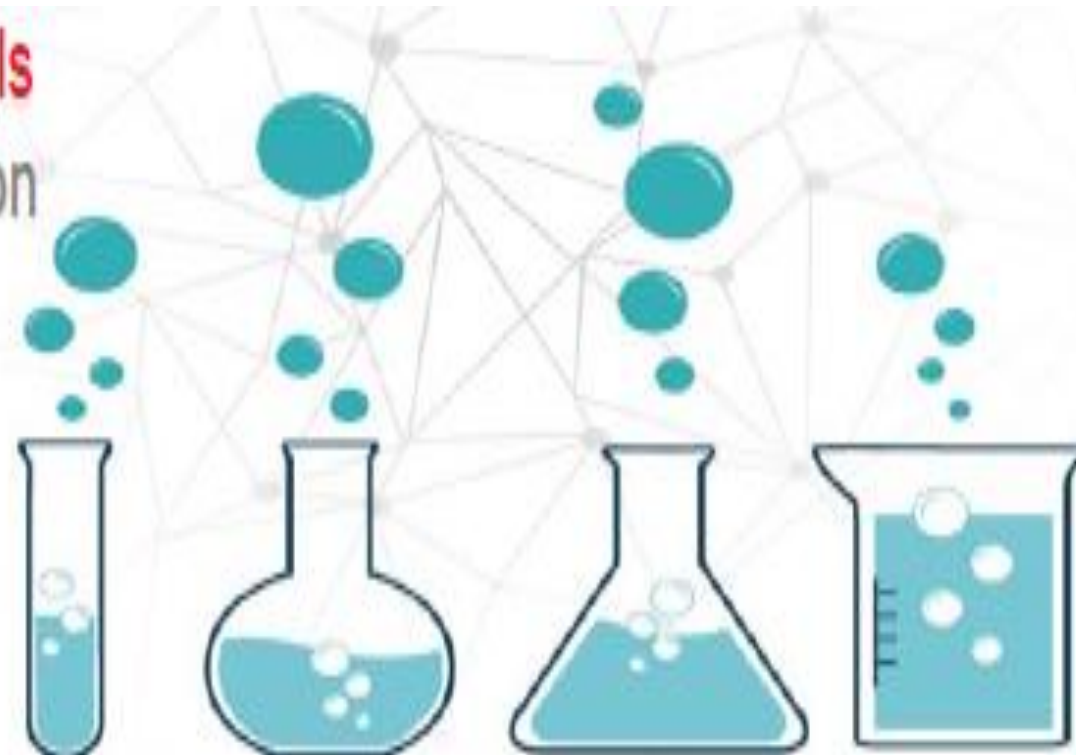
**Works upto a distance
if 350 mm**

SMP VCI Technology

Speedy Moisture Passivation

Combination of 5 different chemicals

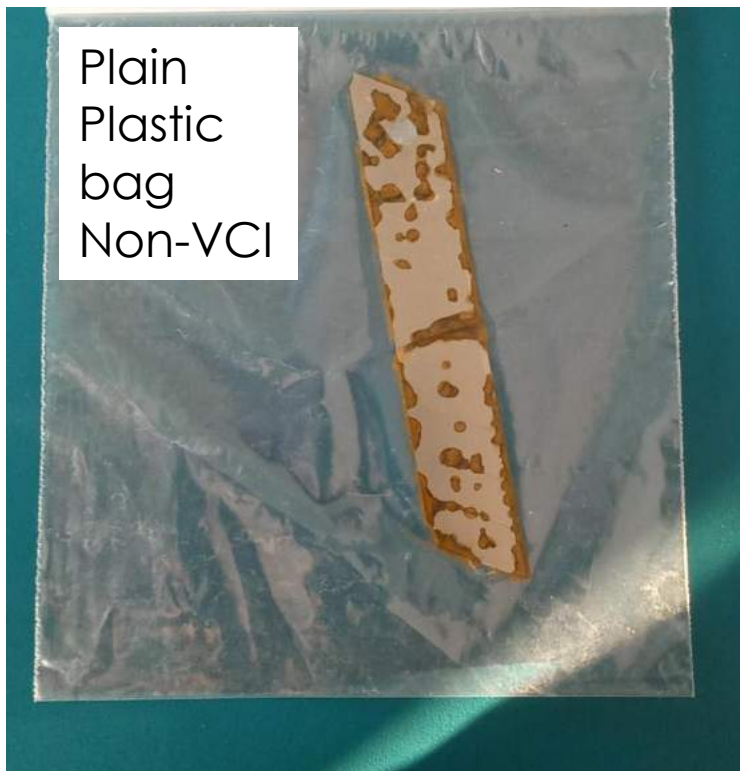
1. Speedy Chemical – Faster action
2. Longevity Chemical
3. Multimetal Chemical
4. Film forming Chemical
5. Sub Zero Action Chemical



VCI Effectiveness



Test 1 : Razor Blade Test



Blank or Non VCI
Bag with a wet blade



Fake VCI bag with Wet Blade



RUST-X VCI Bag with a wet blade

Test 2: Vapor Inhibiting Ability Test as per TL8135 - 0043



RUST-X



Blank



Fake VCI

RUST-X

REST WITHOUT RUST

Key Features



REACH



ROHS



NACE
INTERNATIONAL

NACE

VIA

Fumeless

PE & PP
compatible

VIA
Pass

TRGS 615
OK

Razor Blade
Pass

Amine Free

Nitrate Free

Lamina Shrink Film with VCI conforming to EN 13206/13207 & VCI TL 8135-0043

- ▶ Lamina Shrink with VCI – Co-Extruded 5 Layer Shrink Film With VCI Properties on the inside
- ▶ Super Sealant Layers that forms a non-leak seal during shrinking
- ▶ Outside white inside Green (VCI)
- ▶ -70 C – 100 C Service Temp. range
- ▶ Passes TL 8135-0043
- ▶ Passes EN 13206/13207 Weathering Test for UV performance



VCI Shrink Film

- ▶ Shrink Film in different colours available
 - ▶ Blue
 - ▶ White
 - ▶ Military Green
 - ▶ Military Brown



UV resistance Tests

SGS

TEST REPORT

REVISED

Report No. : MAN:TR:8530004924-1

DATE : 13/04/2017



HI TECH INTERNATIONAL

PLOT NO B 31, BEANT COLONY JAMALPUR

LUDHIANA-141010

INDIA

CONTACT PERSON : MR. SIDHARTH SAREEN

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION THERMAL SHRINK FILM AS PER EN13206/EN13207

COUNTRY OF ORIGIN INDIA

SAMPLE RECD ON 06/03/2017

TESTING PERIOD : 17/03/2017-20/03/2017

MODIFIED DATE 11/04/2017

TEST(S) REQUESTED UV TEST

Sample Photo: as received



UV TEST:

EN 13206 : 2001

Test method : ISO 4892-2 : 2013 / ISO 527-1&2 : 2012

Test instrument : Xenon arc Weather-o- meter – Atlas Ci 5000.

VCI Anti Corrosion Properties

AS PER TL 8135-0043

Tested from BFSV Germany

Requirements of TL 8135-0043 (Appendix A) for the corrosion protection effect:

Evaluation of the test objects



Keine

Keine korrosionsschützende Wirkung



Geringe

Geringe korrosionsschützende Wirkung



Mittlere

Mittlere korrosionsschützende Wirkung



Gute

Gute korrosionsschützende Wirkung

Corrosion protection effect



None (Grade 0)

Slight (Grade 1)

Middle (Grade 2)

Good (Grade 3)

Table 2: Detailed test results

Rust-X VCI film "RUST-X VCI FILM"	Test objects	
	Control sample (without VCI)	Protected samples with VCI film
Evaluation		
Corrosion protection effect	<p>3 3 3</p> <p>Grade 3</p> <p>Good corrosion protection effect</p>	

Standard Sizes

- ▶ 6 meter X 33 meter
- ▶ 3 meter X 100 meter
- ▶ Thickness
 - ▶ 100 micron, 150 micron, 200 micron, 250 micron, 300 micron
 - ▶ 4 mil, 6 mil, 8 mil, 10 mil, 12 mil



Packaging
of Shrink
Film Rolls in
boxes

Examples of Shrink packaging of Equipment

30 M Long Oil & Gas Equipment

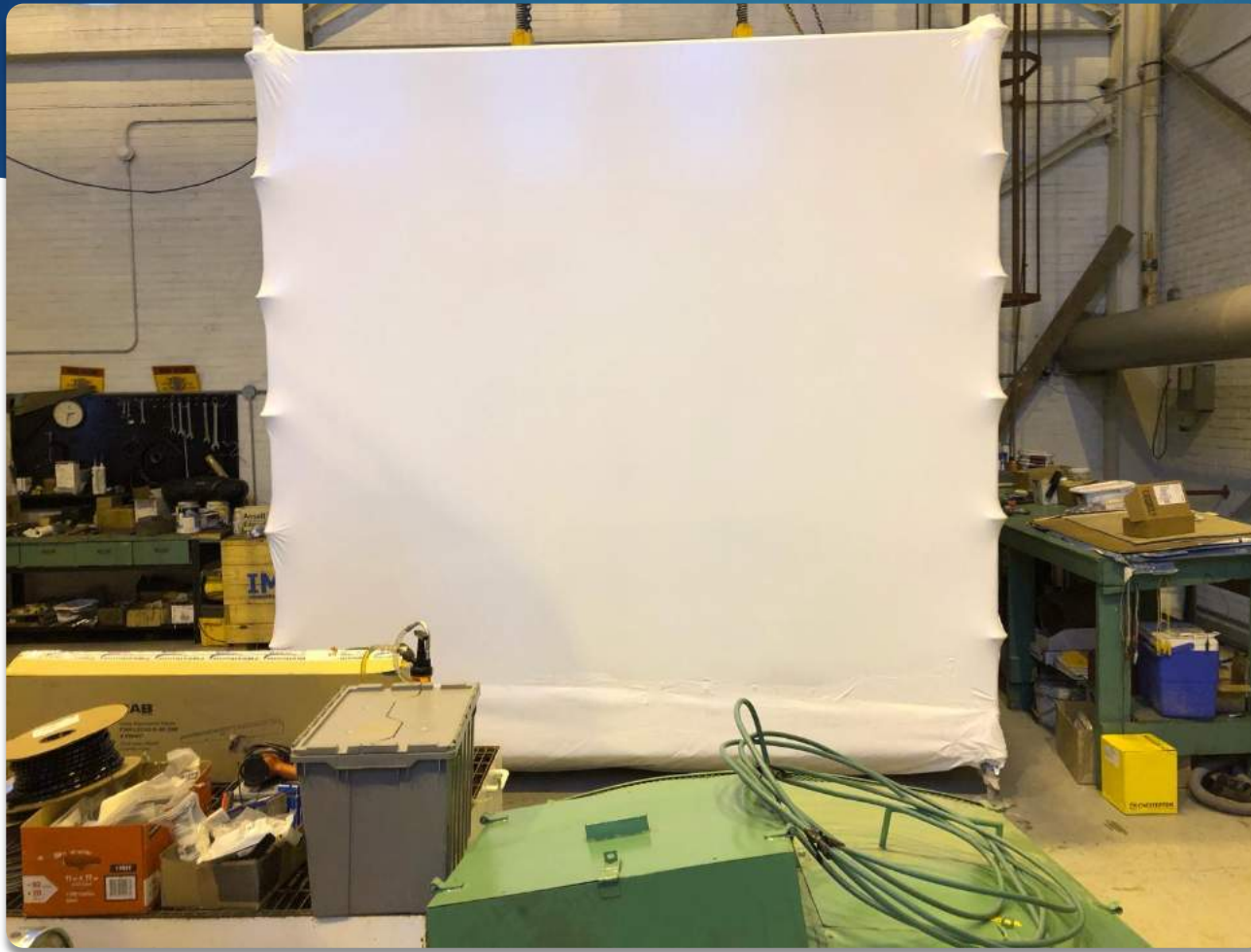


30 M Long Oil & Gas Equipment



Yacht Wrapped in Lamina Shrink With ANTI-RODENT TECHNOLOGY to prevent Rats from Entering inside the boats





Oil & Gas
Equipment
Shrink
Wrapped



Shrink
Wrapped in
-30 C
temperatures



Shrink Wrapping in Sub Zero Open Storage



Sub Zero

Open
area

Shrink
Wrapped



Use of
ZORBIT
Desiccants
to absorb
moisture

Oil & Gas Equipment





Equipment
with a lot of
sharp edges

GE Approved Shrink Packaging with Net

- ▶ Lamina VCI Shrink Bags
- ▶ RUST-X 145 A – EX oil Spray
- ▶ Placement of Emitters & Desiccants
- ▶ Sealing of the bags
- ▶ Heat Shrinking
- ▶ Net over the packaging
- ▶ Air Vents



Large Parts in Shrink Packaging

- ▶ Lamina VCI Shrink Bags
- ▶ RUST-X 145 A – EX oil Spray
- ▶ Placement of Emitters & Desiccants
- ▶ Sealing of the bags
- ▶ Heat Shrinking



Canadian Air Force



Canadian Air Force





ABB Equipment



Shrink
Wrapped
Machines

VCI 4500 Emitter + Desiccant Pouch + Lamina Shrink



36"x48"



Shrink
Zipper
Access
Door

Construction Applications

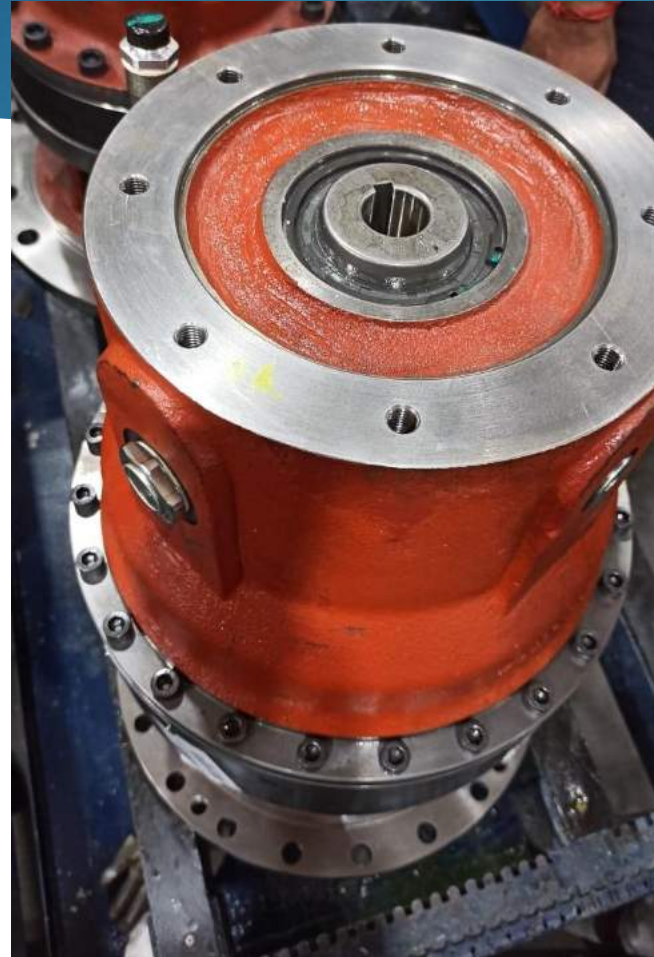


Additional Protection Products

MASKING STICKER

Masking Sticker

- ▶
- ▶
- ▶
- ▶



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RUST-X

Example of VCI Masking Sticker



Masking Film



Masking Film uses



VCI Powder for Fogging

VCI 4201

Pipelines with Powder



- VCI Fogging Powder 4201 for fogging the internals
- Powders can be blown using RUST-X Fogging Buckets by normal blowers and cover all surfaces
- Ideal for small pipes



VCI 4201 Fogging Bucket



Check FOGGING VIDEO with this bucket

<https://www.youtube.com/watch?v=v8noP0gHoLk>

- ▶ Plug and play FOGGING bucket
- ▶ No need to take out powder
- ▶ Just connect with a leaf blower and an outlet hose and start to FOG

VCI Emitters & Desiccants



Corrosion Protection For Electrical Cabinets and Junction Boxes

- ▶ VCI emitting devices 5 & 11 for placement in electrical cabinets & with critical metal parts
- ▶ VCI molecules released and deposited as invisible multi-molecular layer on surface





Use of
ZORBIT
Desiccants
to absorb
moisture

Use Dual Action VCI &
DHF Pouch – VCI 4500





Ammo-guard tablets

Anti-Corrosion tablets
for Hollow Equipment

RUST-X
sprays



High Performance Lubricant



Properties

- Multipurpose spray for numerous applications
- Provides rust protection when sprayed on metallic components
- Cleaning action helps in loosening of rusted and jammed parts, fasteners & fittings
- Lubricates, protects & eases dismantling
- Displaces moisture from metal surfaces
- Extends metal life, wear & transmission efficiency by conditioning & cleaning parts

RUST-X 40
MULTIPURPOSE SPRAY

Inhibits Corrosion Degreases & Lubricates
Loosens Tight Bolts & Hinges Over 5000 Applications

RUST-X 40
Corrosion
prevention
Spray

VCIJelly 1369 – RUST Preventive liquid Wet Lubricating



- ▶ Applied as a Honey Type Jelly
- ▶ Remains liquid on the part
- ▶ Can provide excellent 10 year protection after application
- ▶ Does not solidify
- ▶ Provides good lubrication

VCI Dry Coat 1368 for Outdoor protection of metals

Drying type coating



- ▶ Solid Film Rust Preventive with very high salt spray protection
- ▶ Excellent protection outdoors
- ▶ Removable with a solvent
- ▶ Protects in open for long term
- ▶ Applied as a Liquid
- ▶ Dries as a golden coat

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