

Corrosion Prevention for Steel Coils



Global Manufacturing Plants

RUST-X®
REST WITHOUT RUST



USA -
California



India – 4
plants



France -
Lyon



Italy -
Modena



Australia

About us



RUST-X
REST WITHOUT RUST

- 30 Year Old organization
- Manufacturer of VCI Films, Papers, Liquids, Additives , Lubricants and Master batches and over 400+ products
- Founded by a Chemical and Polymer Engineer who is currently our Director Technical
- 650 Employees globally
- Manufacturing in 4 continents and availability of product in 40 countries
- Manufacturing Plants



USA



India



France



Italy



Australia



Manufacturing Plants



Manufacturing Plant

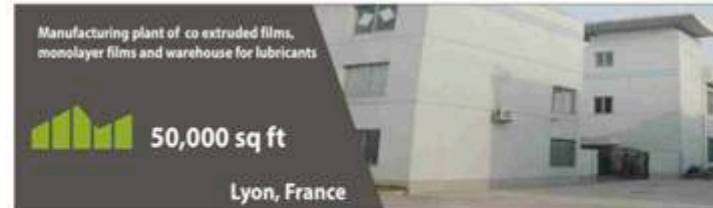
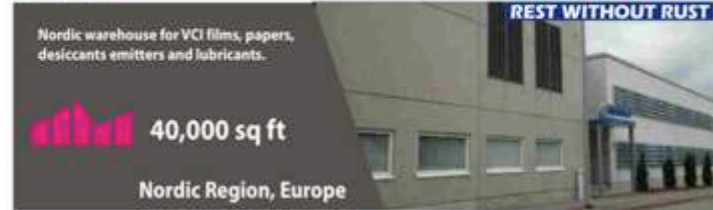


RUST-X

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Warehouse/Office



Manufacturing in 4 continents

Exports to 40 countries

650+ Employees who are

- Corrosion Engineers,
- Corrosion Auditors,
- Manufacturing Staff,
- Management

RustX Small Wrapper



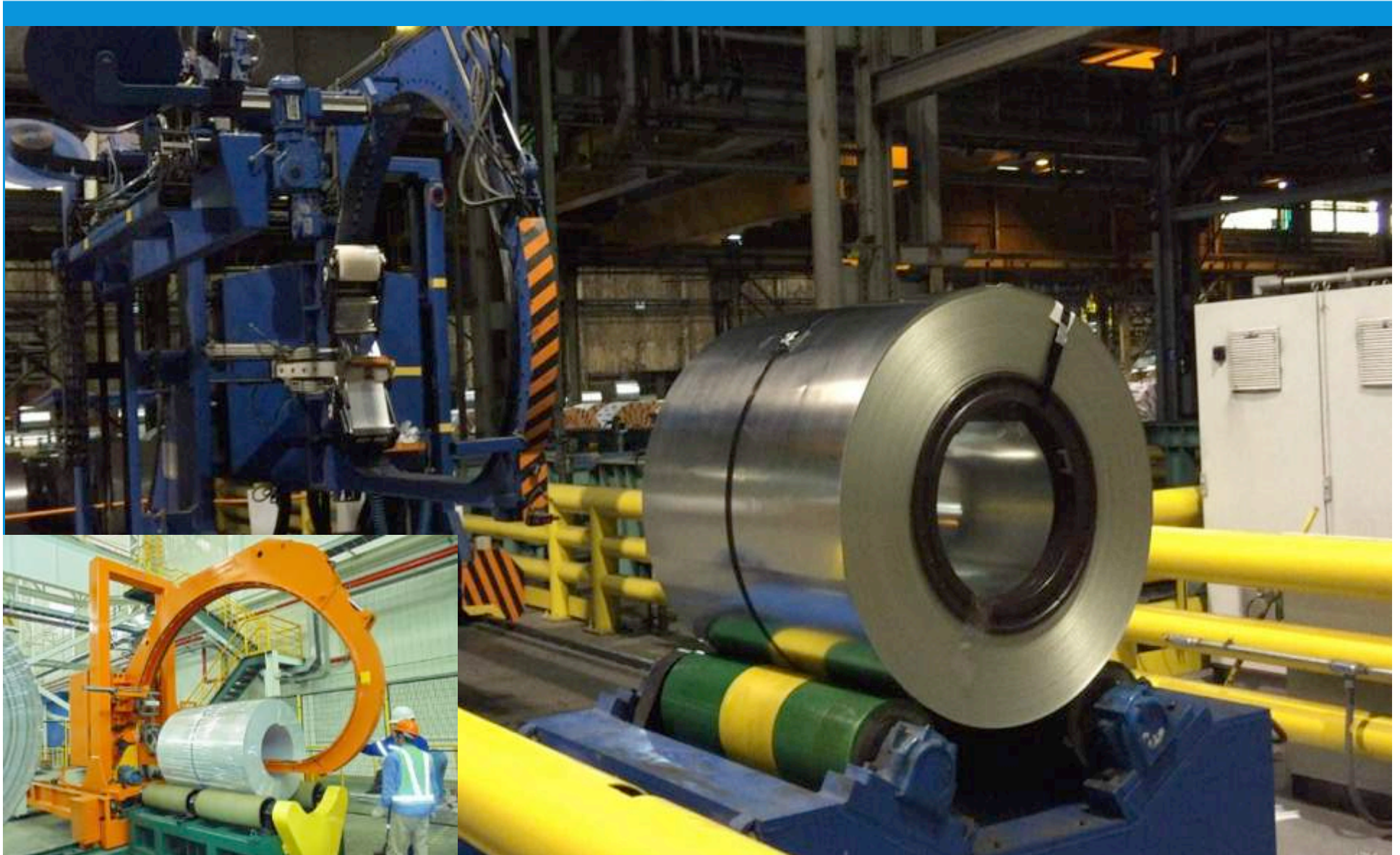
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Coil Master Wrapper



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Video Links



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Corporate Video - <https://www.youtube.com/watch?v=e7rsN2CseVA>

Coil Master - <https://www.youtube.com/watch?v=597PE1SBSTg>

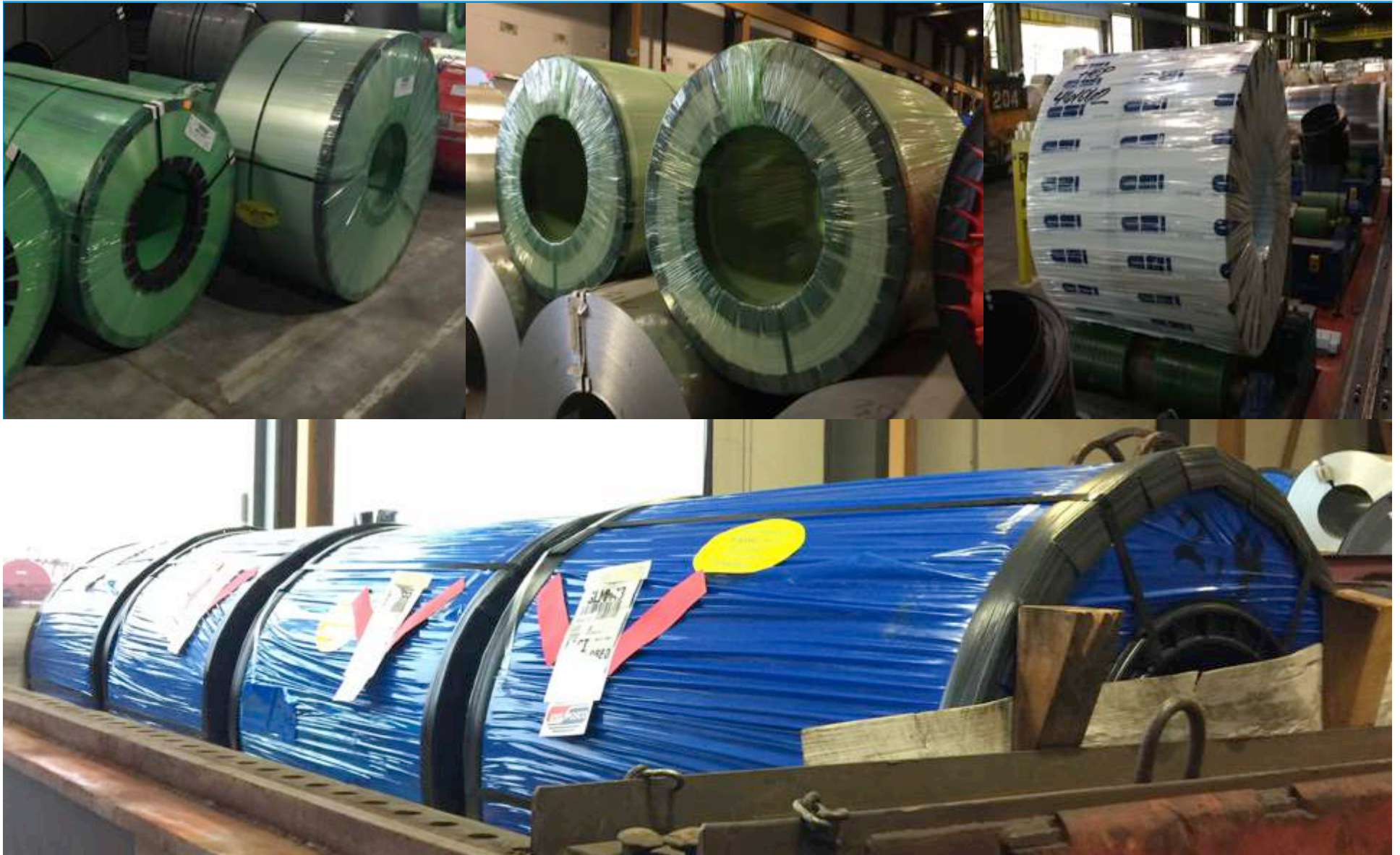
Tube Packaging - <https://www.youtube.com/watch?v=oy2Dc2ON9EY>

Coil Wrapper - <https://www.youtube.com/watch?v=tIVfmZEGbao>

VCI STRETCH FILM



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VCI STRETCH FILM WITH PRINTING



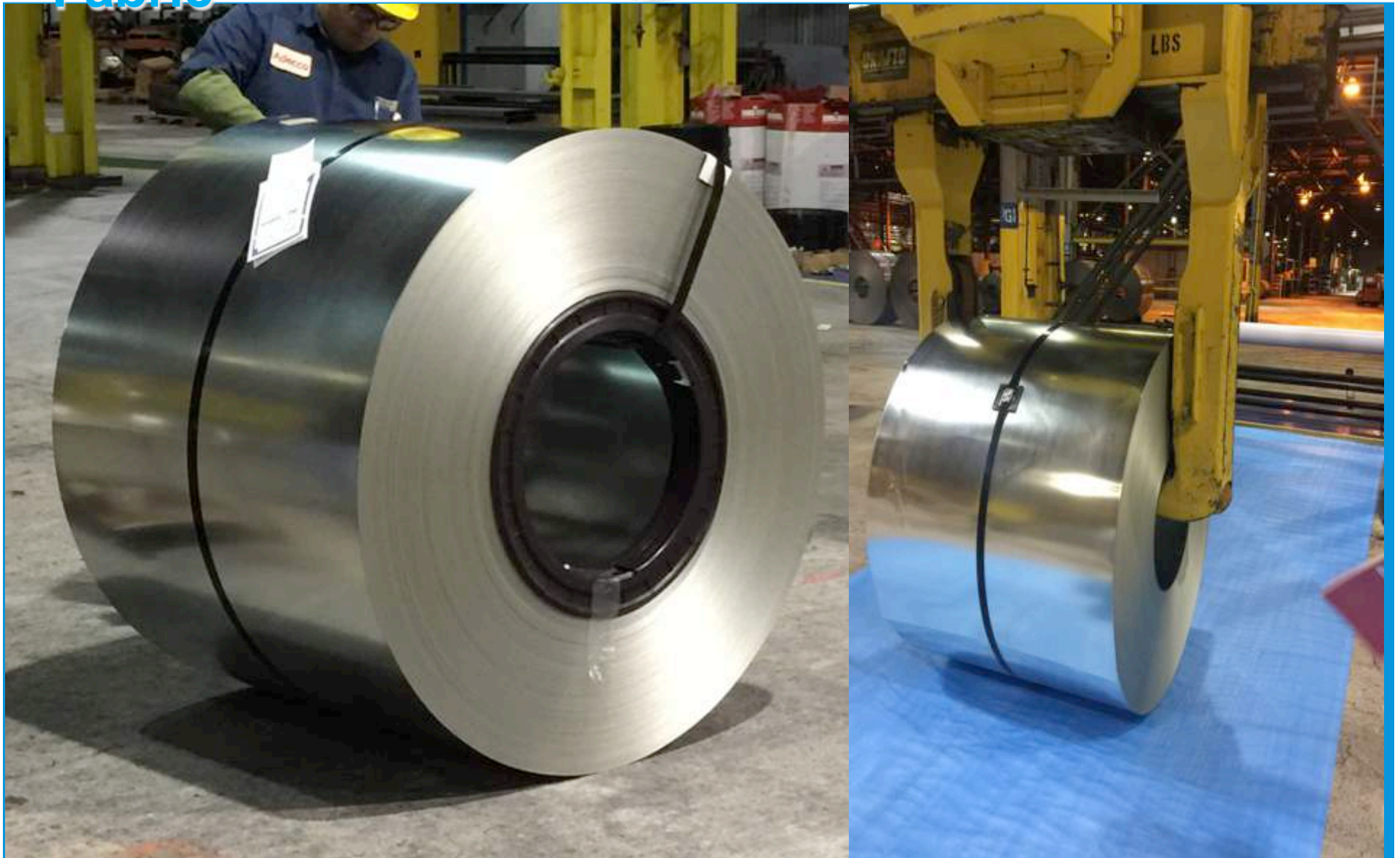
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Manual Packing using VCI StrenGth Fabric



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Manual Packing using VCI Strength Fabric



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Manual Packing using VCI Strength Fabric



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Manual Packing using VCI Strength Fabric



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Coil Car



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Use of Zorbit Desiccants



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COIL ID and OD Protectors



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High Tack Films



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No Influx of moisture, water , snow

Highly tacky films

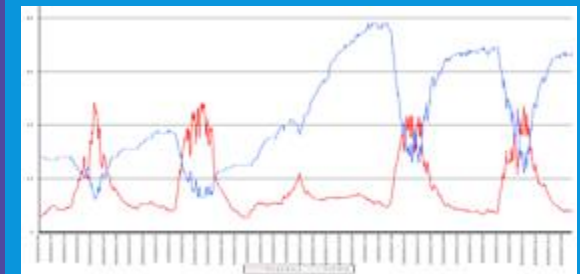


No outgassing of VCI

Sealed environment
Eye Wrappers



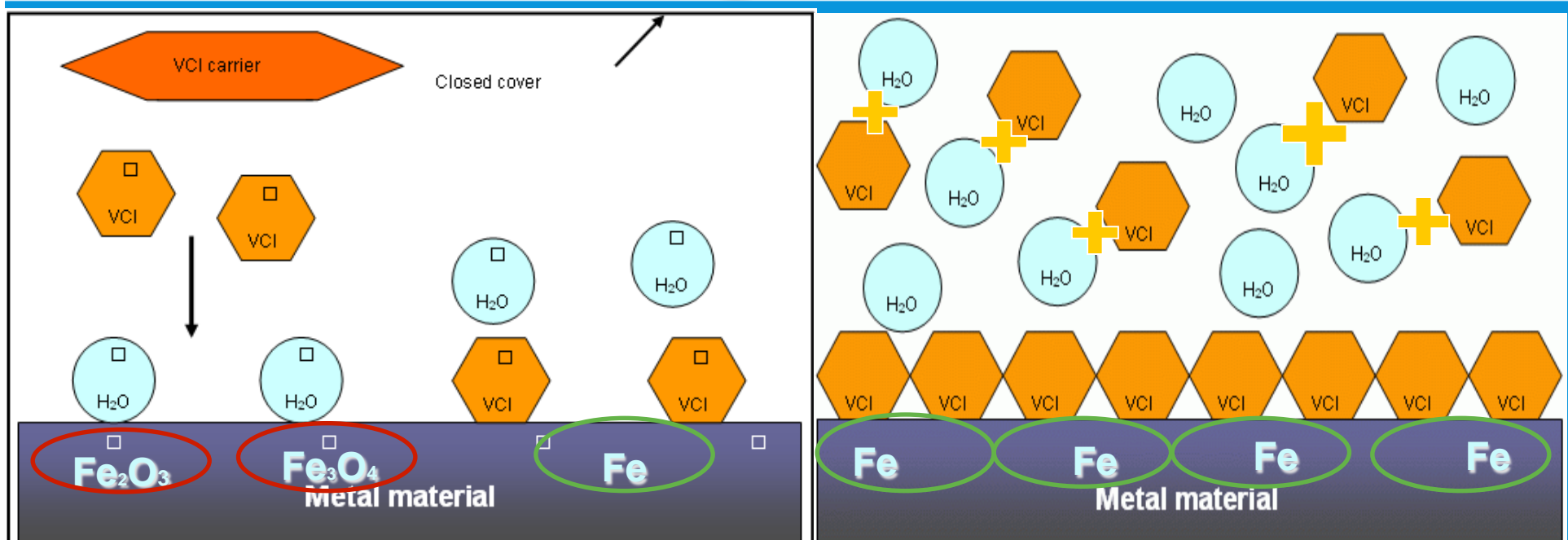
Adequate quantity of VCI



Proprietary VCI Technology



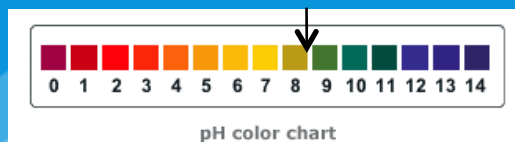
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SMP Technology

Speedy Moisture Passivation

☐ 30 second formula vs 12 hours of competition to make pH of packaging alkaline (live test available)



Packaging in VCI

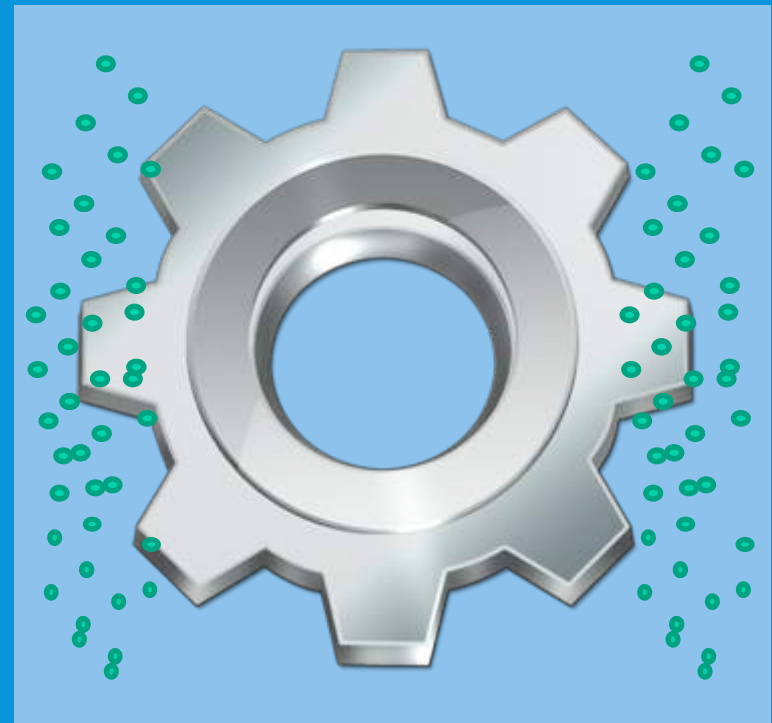
VCI Works By

- ☐ Evaporation & De-activation of moisture
- ☐ Multi-molecular film onto the metal
- ☐ Altering the pH
- ☐ Passivating the electron flow

SMP Technology



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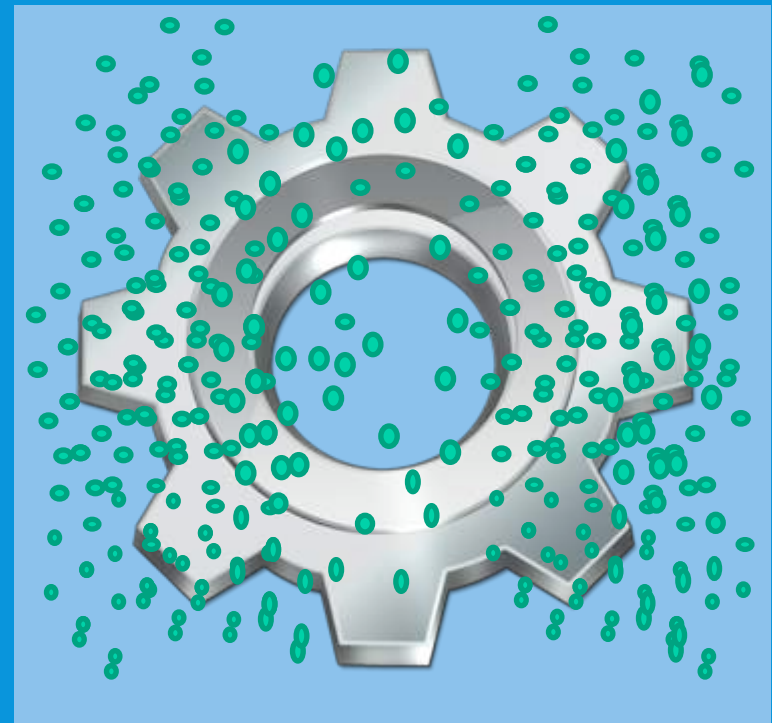


Speedy Moisture Passivation Technology
20% in 6 hours and remaining over 15 years

SMP Technology

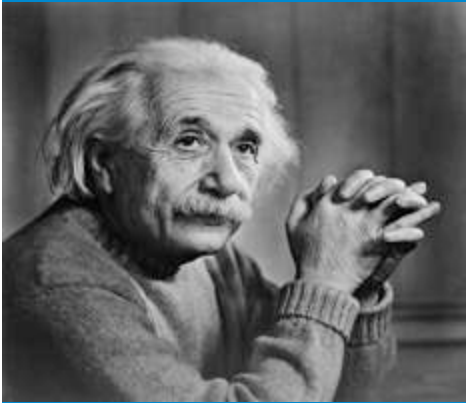


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pH Value – 9 achieved in less than 2 minutes

Quote



**INTELLECTUALS SOLVE
PROBLEMS, GENIUSES
PREVENT THEM**

- Albert Einstein

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**How oxidization
happens if
packaging is not
appropriate**

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SNOW on Coils



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Water
seepage



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Tackiness & VCI



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- ❑ RustX SMP and RustX HMPIB Technology (Heavy Molecule PIB Technology)
- ❑ VCI molecules have high vapour pressure
- ❑ The can outgas out of the film
- ❑ PIB neutrality is maintained to enable VCI work on pH 9

Causes of RUST



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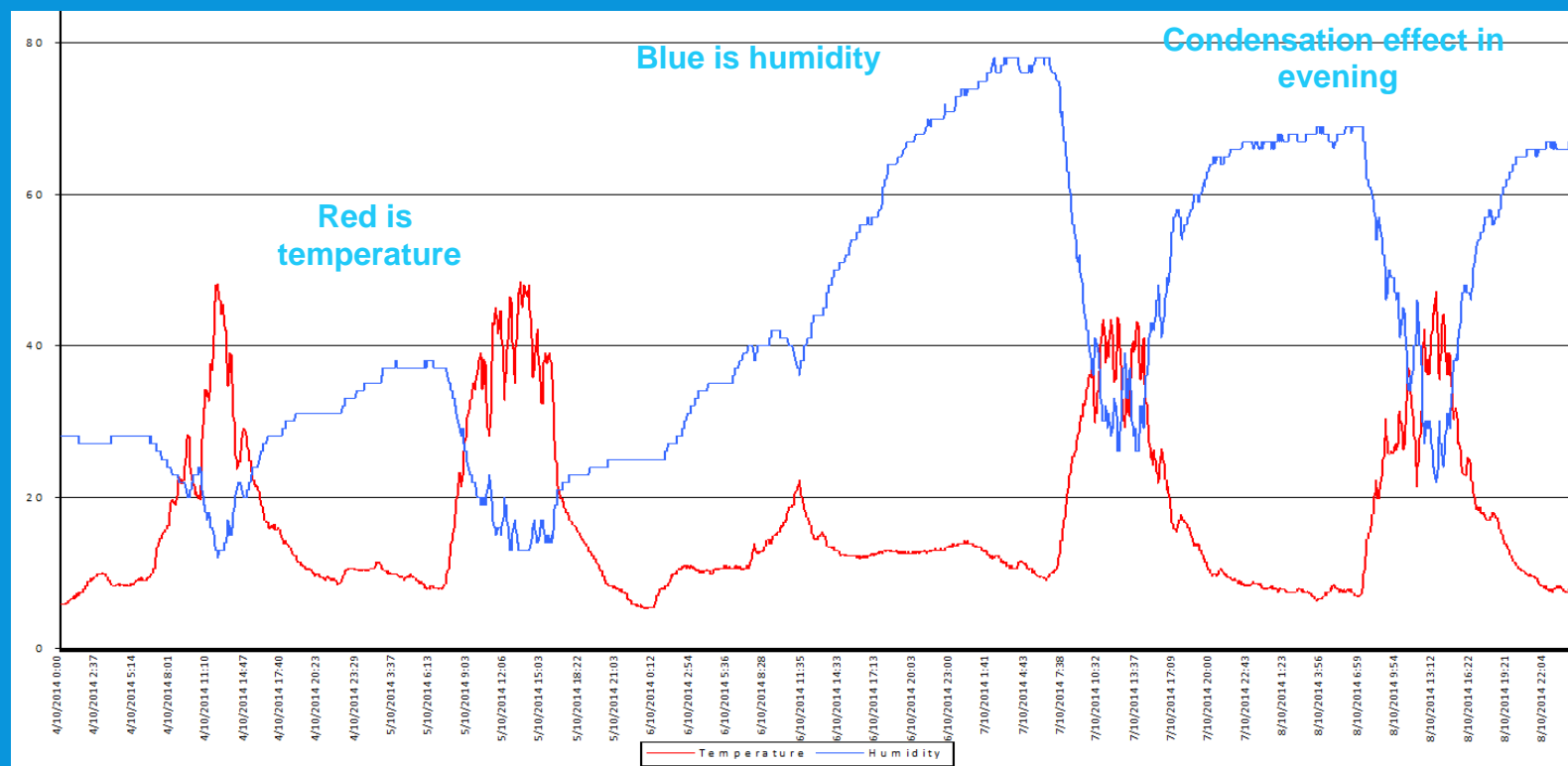


- ❑ Moisture during Packaging – 100% RH with Temp of 110 F – 120 F
- ❑ Breathing of the Packaging – Changes in Temperature & Volume of Air
- ❑ Removal Of Oil from the surface by absorption
- ❑ Rainfall during transportation
- ❑ Improper Storage Conditions

Temperature and Humidity



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Initial



After condensation

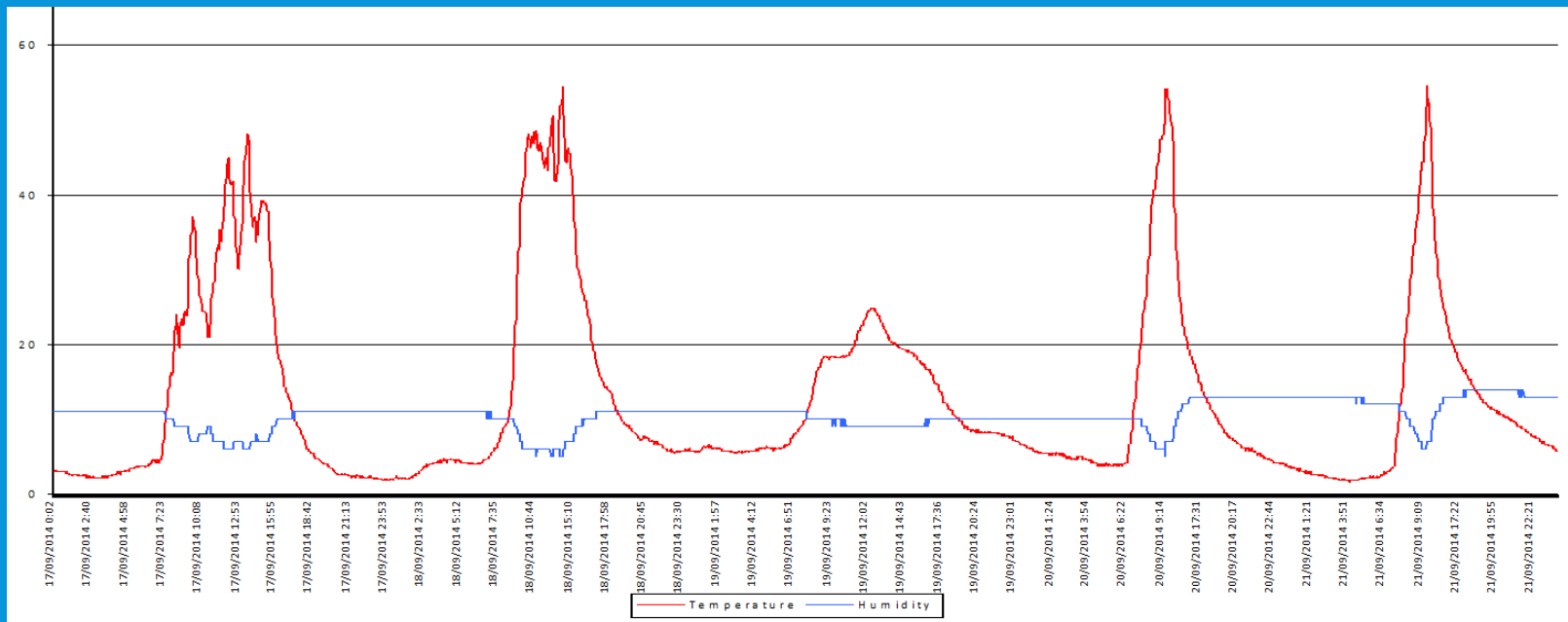


Stable Humidity



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Humidity is stable in tacky films



No Inlet of moisture
No Outgassing of VCI
No Corrosion



How VCI Power Stretch Film is Produced

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3 – Layer Plant



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Pores



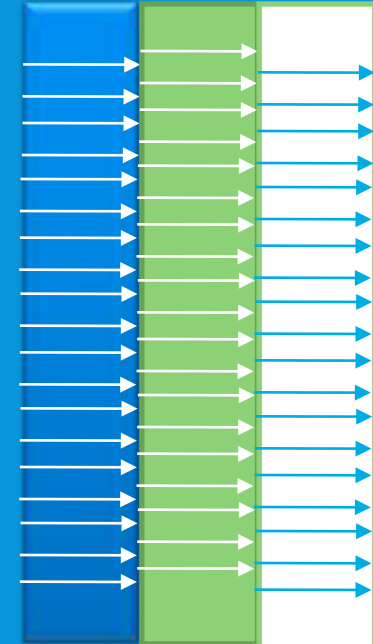
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- Water Molecules
- Air Molecules
- Moisture



1 layer



3 – layer Co-EX

HDPE fully permeable with only 20 micron thick continuous film
1 Layer Film permeable with low barrier properties
3 layer film pores don't line up and reduced permeability

Why Shift to RustX Power Stretch Film



Advantage



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- ☐ Both side tacky
- ☐ Only bonds film to film and not film to metal
- ☐ Air-Tight
- ☐ Water-Proof
- ☐ Rust Preventive
- ☐ 0 Moisture Retention
- ☐ Higher Tear Strength & Puncture Resistance

pH test



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- ▶ Red litmus solution is a pH identification liquid
- ▶ pH 1-7 is acidic
- ▶ pH 7 -14 is alkaline
- ▶ RustX VCI changes alkalinity from 2 of red litmus to 8-9 within 30-45 seconds exhibiting corrosion protection with the use of Patented Speedy Moisture Passivation Technology (SMP)



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