How Zerust® Technology Protects Metal from Corrosion
and How to Apply it to Work for You
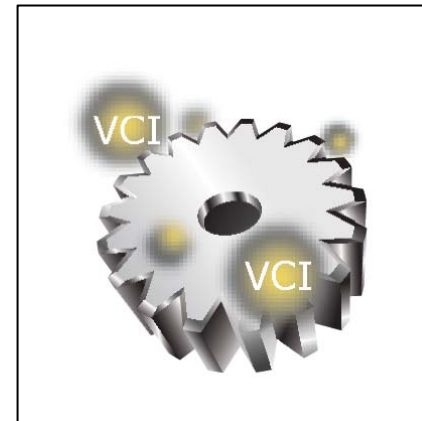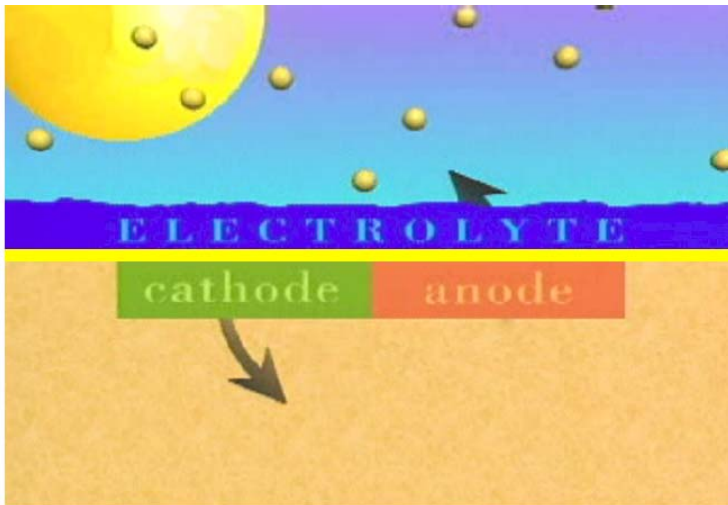

ZERUST® EXCOR®

Corrosion and Its Effects

Corrosion is the degradation of metal over time as the surface interacts with oxygen, water and acid gases. The metal tries to go back to its natural state. As a result, rust can form on unprotected metal parts within hours.

Managing corrosion with Zerust® products and services will save your company from the substantial costs of rework, scrap, additional freight, extended lead time, and loss of customer confidence.
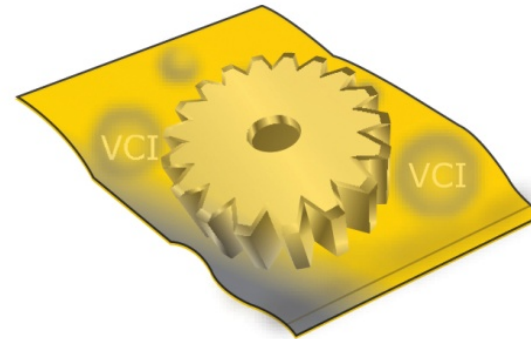
How does Zerust® Technology Works

Zerust® corrosion inhibiting vapor molecules passivate the electrons in elements that degrade metal like oxygen, water and acid gases.

How Zerust® Technology Works

The molecules of protective vapor from the Zerust® film are emitted into the enclosed area of the bag or film.

The vapor saturates the air and bonds with the metal to form protective barrier on all <u>exposed</u> metal surfaces.

The vapor dissipates when the enclosure is opened, but saturates the air again after each closing.

Interesting Facts:
• The VCI layer on a metal part can be as thin as one to two molecules
• When exposed to air the vapor disappears completely within two hours
• Zerust® film inhibits corrosion on metal for up to five years

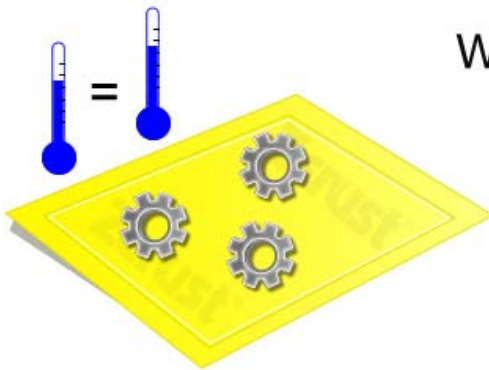# Correct Packing and Handling Instructions

CORRECT

WRONG

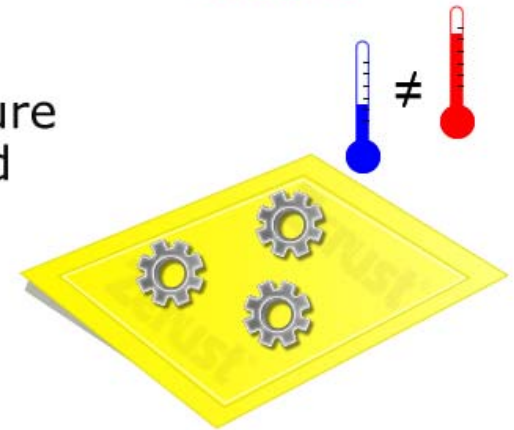All packs must be tightly closed to restrict airflow.

CORRECT

WRONG

When packing, the temperature of the parts being packaged must be the same as the current room temperature.
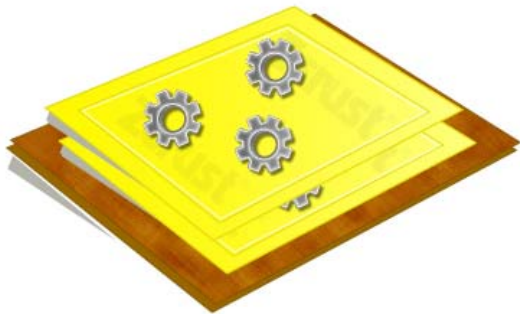
Correct Packing and Handling Instructions

CORRECT

WRONG

Interleave Zerust® sheets to provide separation between metal surfaces.

CORRECT

WRONG

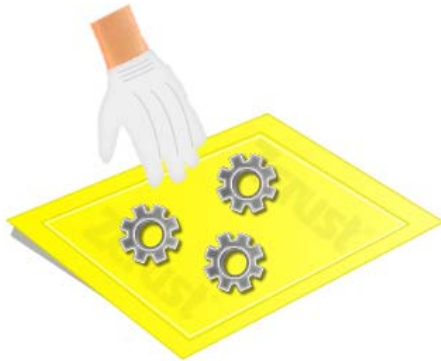Avoid direct contact of metal with wood, paper or cardboard! Cover intermediate layers with Zerust®!

Correct Packing and Handling Instructions

CORRECT   **WRONG**

Always wear clean and dry gloves before handling metal parts.

CORRECT   **WRONG**

Pack only clean and dry parts.