The ultimate in volatile corrosion protection

Anyone can use LAN RAM, from expert to novice.

Just include a packet of LAN RAM in your product's shipping or storage container. LAN RAM is the most effective way to protect metal products, precision equipment, electronics parts and automobile parts from corrosion during transport and storage.

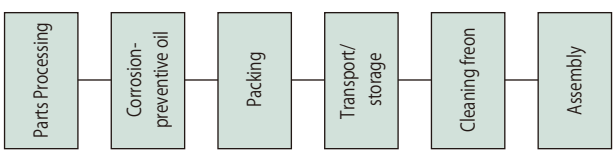
Outline

Volatile Corrosion Inhibitors (VSIs) prevent corrosion by vaporizing at room temperature and forming a protective microscopic layer on metal surfaces, just like naphthalene repellents used in homes.
LAN RAM is an acronym for "Long-term security ANti-Rust Against Metal." It is a new type of volatile corrosion inhibitor, which comes in a packet containing a selected mix of VCIs. Each packet is made of specially processed paper that is water and oil resistant yet highly gas permeable.
LAN RAM is an attractive alternative to conventional corrosion inhibitors such as grease, oil or plating for rust prevention and silica gel for moisture absorption.

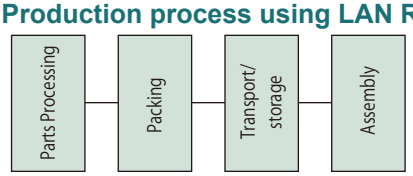
Features

-Useful for iron and cast iron as well as nonferrous metals such as copper, copper alloy and cast aluminum.
-Long-term corrosion prevention with quick results.
-Easy to use. (Just place a packet of LAN RAM in your shipping or storage container.)
-Vaporizing gas reaches every corner.
-Cleaner and more comfortable than corrosion prevention methods using grease or oil.
-The same packet can be used repeatedly.
-Reduces cost by eliminating the need for degreasing.
-Environmentally safe, as LAN RAM requires no degreasing solvents containing freon. (LAN RAM conforms to freon regulations.)

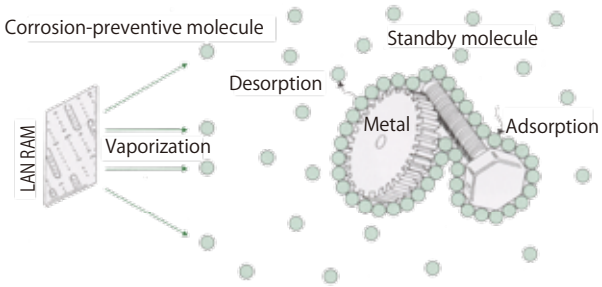
Production process using conventional corrosion-preventive oil



Production process using LAN RAM

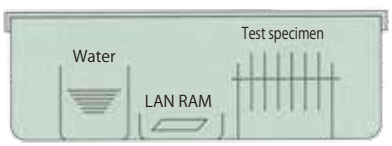


Corrosion prevention structure



Test Data

Place a test specimen, LAN RAM and a vessel of water into a rectangular polyethylene container, as shown in the figure. Seal the container with a polyethylene sheet. Place the container in an incubator with a temperature of 50 °C for 8 hours, then cool the container to generate water droplets. Repeat this process for the specified period. Observe the condition of the test specimen 30 and 60 days after beginning the test. Perform the same test with a blank test specimen for comparison.



		Copper	Solder	Brass	Steel	Cast-iron	Cast-aluminum
After 30 days	LANRAM	○	○	○	○	○	○
	Blank	×	△	×	××	××	×
After 60 days	LANRAM	○	○	△	○	○	○
	Blank	××	×	××	××	××	××

○:Complete corrosion prevention
△:Minor amounts of rust or discoloration
×:Moderate amounts of rust or discoloration
××:Major amounts of rust or discoloration

Applications

○Metal products (printed circuit boards, coils, machine screws, plates, etc.)
Parts manufacturers→assembly/processing companies
For transport and/or storage
○Export of automobile knockdown parts (engines, transmissions, etc.)
○Electrical instruments, office equipment, molding dies and die parts, musical instruments, metal powder, sporting goods, fishing tackle, cutlery, tools, etc.

*It is not guaranteed that corrosion does not occur even if LAN RAM is in use.

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